



Pre-PUR®

NORPLAST®

AIRDUC®

PROTAP®

CP

INOX

IH 2018

NORRES INDUSTRIAL HOSES

WOOD PROCESSING



simply flexible



Wood dust extraction, wood chips:
Furniture production, saw mill

Recommended by NORRES customers:

- TIMBERDUC® PUR 531 AS
- TIMBERDUC® PUR 532 AS
- TIMBERDUC® PUR 532 CNC
- TIMBERDUC® PUR 533 AS

Proven Alternatives:

- PROTAPE® PUR 301 AS
- PROTAPE® PUR 330 AS
- AIRDUC® PUR 350 AS
- AIRDUC® PUR 355 AS
- NORPLAST® PUR 385 AS
- METAL HOSE 375
- METAL HOSE 375 HT
- METAL HOSE INOX 376



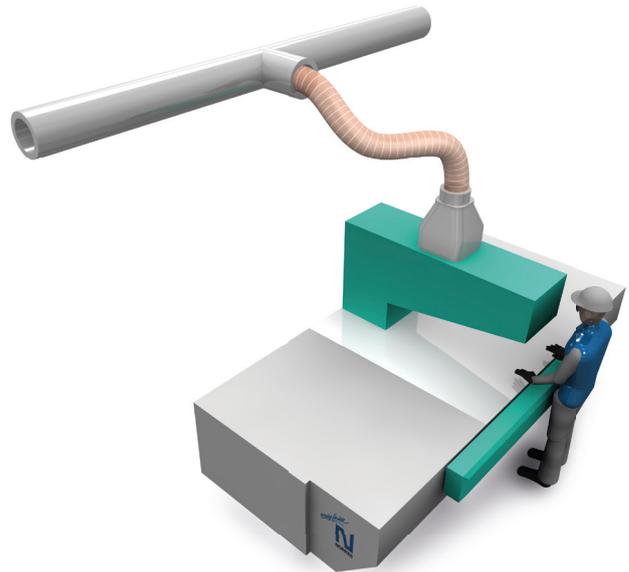
Wood dust extraction:
CNC machine, CNC machining center (especially for fast moving systems)

Recommended by NORRES customers:

- TIMBERDUC® PUR 532 CNC

Proven Alternatives:

- TIMBERDUC® PUR 531 AS
- PROTAPE® PUR 301 AS
- PROTAPE® PUR 330 AS



Wood dust extraction: Vertical panel saw, saw, woodworking machine, edge processing machine, parquet flooring grinding machine

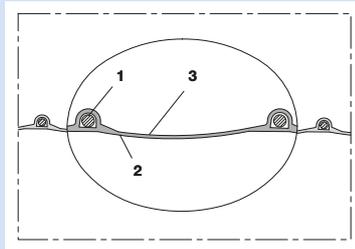
Recommended by NORRES customers:

- TIMBERDUC® PUR 532 AS
- TIMBERDUC® PUR 533 AS

Proven Alternatives:

- PROTAPE® PUR 301 AS
- PROTAPE® PUR 330 AS
- AIRDUC® PUR 350 AS
- AIRDUC® PUR 355 AS
- NORPLAST® PUR 385 AS





Antistatic polyurethane hose for the woodworking industry, light, flame-retardant

Applications

- extraction unit, dust collection systems, filter system, oil mist extraction
- explosion hazard area
- wood dust extraction, wood chips: furniture production, saw mill
- wood dust extraction: CNC machine, CNC machining center (especially for fast moving systems)
- bellows, compensators

Properties

- light weight
- highly flexible + compressible 4:1
- abrasion-resistant
- microbe resistant
- good resistance to oil, gasoline, and chemicals
- flame-retardant according to: DIN 4102-B1
- permanently antistatic wall: in accordance with ISO 8031 electrical and surface resistance <math>< 10^9 \Omega</math>

- in accordance with ATEX 2014/34/EU (1999/92/EC) and German TRGS 727: aspiration of combustible dust (zone 22 inside), for conveying of non-flammable liquids, for use in zone 1 and 2 (gases)
- conforms to the safety regulations of the German Wood Trade Association
- according to DIN 26057 Type 1
- conforms to RoHS guideline

Temperature range

- -40°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 polyurethane (Pre-PUR®), resistant to aggressive wood types and wood preservatives

3. wall thickness 0.02 inch approximate

Delivery variants

- further diameters and lengths available on request
- transparent + partially silver colored (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	Vacuum	Bending Radius	Weight	Production Length	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	
2 / 50-51	2.28	6.95 (-)	5.02 (-)	1.30	0.160	25 50	531-0050-0000
2.36 / 60	2.68	5.85 (-)	4.28 (-)	1.50	0.230	25 50	531-0060-0000
2.5 / 63-65	2.87	5.35 (-)	3.84 (-)	1.57	0.240	25 50	531-0065-0000
- / 70	3.07	5.00 (-)	3.69 (-)	1.69	0.260	25 50	531-0070-0000
3 / 75-76	3.27	4.70 (-)	3.40 (-)	1.77	0.275	25 50	531-0075-0000
- / 80	3.46	4.40 (-)	3.25 (-)	1.89	0.295	25 50	531-0080-0000
3.5 / 89-90	3.86	3.90 (-)	2.81 (-)	2.09	0.330	25 50	531-0090-0000
4 / 100-102	4.25	3.55 (-)	1.62 (-)	2.28	0.350	25 50	531-0100-0000
- / 110	4.65	3.20 (-)	1.48 (-)	2.50	0.385	25 50	531-0110-0000
4.5 / 114-115	4.84	3.05 (-)	1.48 (-)	2.58	0.395	25 50	531-0115-0000
4.72 / 120	5.04	2.95 (-)	1.33 (-)	2.68	0.415	25 50	531-0120-0000
5 / 125-127	5.24	2.85 (-)	1.33 (-)	2.78	0.430	25 50	531-0125-0000
- / 130	5.43	2.70 (-)	1.18 (-)	2.87	0.455	25 50	531-0130-0000
5.5 / 140	5.83	2.55 (-)	1.18 (-)	3.07	0.485	25 50	531-0140-0000
6 / 150-152	6.22	2.30 (-)	1.03 (-)	3.27	0.515	25 50	531-0150-0000
6.3 / 160	6.61	2.20 (-)	1.03 (-)	3.46	0.550	25 50	531-0160-0000
7 / 178-180	7.40	1.95 (-)	0.89 (-)	3.86	0.620	25 50	531-0180-0000
8 / 200-203	8.19	1.75 (-)	0.74 (-)	4.25	0.700	25 50	531-0200-0000
- / 250	10.16	1.45 (-)	0.59 (-)	5.35	0.875	25 50	531-0250-0000
11 / 280	11.34	1.25 (-)	0.59 (-)	5.87	0.975	25 50	531-0280-0000
- / 300	12.17	1.15 (-)	0.44 (-)	6.26	1.165	25 50	531-0300-0000
- / 315	12.76	1.10 (-)	0.44 (-)	6.59	1.225	25 50	531-0315-0000
- / 350	14.13	1.00 (-)	0.44 (-)	7.28	1.350	25 50	531-0350-0000
- / 400	16.10	0.85 (-)	0.44 (-)	8.27	1.545	25 50	531-0400-0000

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. 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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Accessories



CLAMP 212



CLAMP 210 BRIDGE CLAMP



CLAMP 217



CLAMP 213



CONNECT 228

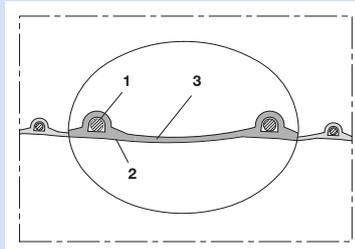


CONNECT 223



CONNECT 270-271

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Antistatic polyurethane hose for the woodworking industry, medium-heavy, flame-retardant

Applications

- extraction unit, dust collection systems, filter system, oil mist extraction
- explosion hazard area
- wood dust extraction, wood chips: furniture production, saw mill
- wood dust extraction: vertical panel saw, saw, woodworking machine, edge processing machine, parquet flooring grinding machine

Properties

- medium-heavy duty
- highly flexible + compressible 3:1
- abrasion-resistant
- microbe resistant
- good resistance to oil, gasoline, and chemicals
- flame-retardant according to: DIN 4102-B1

- permanently antistatic wall: in accordance with ISO 8031 electrical and surface resistance $10^9 \Omega$
- 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 the safety regulations of the German Wood Trade Association
- 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 polyurethane (Pre-PUR®), resistant to aggressive wood types and wood preservatives
 3. wall thickness 0.025 inch approximate

Delivery variants

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

I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Production Length	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	
- / 40	1.85	14.80 (-)	9.89 (-)	1.06	0.175	25 50	532-0040-0000
1.75 / 44-45	2.05	13.20 (-)	8.86 (-)	1.16	0.195	25 50	532-0045-0000
2 / 50-51	2.28	11.90 (-)	6.5 (-)	1.30	0.240	25 50	532-0050-0000
- / 55	2.50	10.95 (-)	5.91 (-)	1.40	0.260	25 50	532-0055-0000
2.36 / 60	2.68	9.95 (-)	5.32 (-)	1.50	0.290	25 50	532-0060-0000
2.5 / 63-65	2.87	9.20 (-)	4.87 (-)	1.59	0.315	25 50	532-0065-0000
- / 70	3.07	8.55 (-)	4.58 (-)	1.69	0.335	25 50	532-0070-0000
3 / 75-76	3.27	8.00 (-)	4.28 (-)	1.79	0.355	25 50	532-0075-0000
- / 80	3.46	7.45 (-)	3.99 (-)	1.89	0.385	25 50	532-0080-0000
3.5 / 89-90	3.86	6.65 (-)	3.54 (-)	2.09	0.425	25 50	532-0090-0000
4 / 100-102	4.25	6.00 (-)	2.36 (-)	2.28	0.445	25 50	532-0100-0000
- / 110	4.65	5.45 (-)	2.07 (-)	2.50	0.490	25 50	532-0110-0000
4.72 / 120	5.04	5.00 (-)	1.92 (-)	2.68	0.530	25 50	532-0120-0000
5 / 125-127	5.24	4.85 (-)	1.92 (-)	2.78	0.550	25 50	532-0125-0000
- / 130	5.43	4.65 (-)	1.77 (-)	2.87	0.570	25 50	532-0130-0000
5.5 / 140	5.83	4.30 (-)	1.62 (-)	3.07	0.620	25 50	532-0140-0000
6 / 150-152	6.22	4.00 (-)	1.62 (-)	3.27	0.660	25 50	532-0150-0000
6.3 / 160	6.61	3.75 (-)	1.48 (-)	3.46	0.700	25 50	532-0160-0000
7 / 178-180	7.40	3.35 (-)	1.33 (-)	3.86	0.785	25 50	532-0180-0000
8 / 200-203	8.19	3.05 (-)	0.89 (-)	4.25	1.035	25 50	532-0200-0000
- / 225	9.17	2.70 (-)	0.74 (-)	4.74	1.175	25 50	532-0225-0000
- / 250	10.16	2.40 (-)	0.74 (-)	5.24	1.275	25 50	532-0250-0000
11 / 280	11.34	2.20 (-)	0.59 (-)	5.83	1.445	25	532-0280-0000
- / 300	12.17	2.05 (-)	0.59 (-)	6.26	1.700	25	532-0300-0000
- / 315	12.76	1.95 (-)	0.59 (-)	6.56	1.780	25	532-0315-0000
- / 350	14.13	1.75 (-)	0.59 (-)	7.24	1.980	25	532-0350-0000
- / 400	16.10	1.50 (-)	0.44 (-)	8.23	2.260	25	532-0400-0000

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. 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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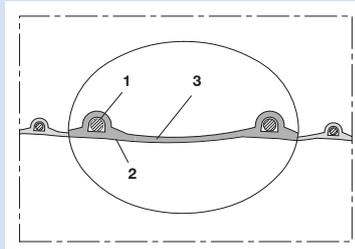
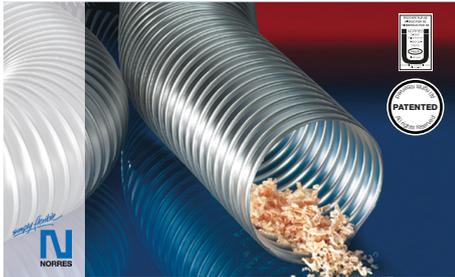


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CNC machine hose for the woodworking industry, reinforced + for higher vacuum, highly flexible + compressible 4:1

Applications

- extraction unit, dust collection systems, filter system, oil mist extraction
- wood dust extraction, wood chips: furniture production, saw mill
- wood dust extraction: CNC machine, CNC machining center (especially for fast moving systems)
- bellows, compensators

Properties

- heavy duty
- highly flexible + compressible 4:1
- highly abrasion resistant
- increased pressure and vacuum resistance
- microbe resistant

- good resistance to oil, gasoline, and chemicals
- flame-retardant according to: DIN 4102-B1
- 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

- patented PROTAPÉ® tape hose
- 1. spring steel wire integrated in the wall
- 2. wall: premium polyurethane, resistant to aggressive wood types and wood preservatives, with flame-retardant additive (Pre-PUR®)

- 3. wall thickness 0.03 inch approximate

Delivery variants

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

I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Production Length	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	
8 / 200-203	8.31	3.55 (-)	0.89 (-)	5.04	1.275	25	532-0200-2533
- / 225	9.29	3.10 (-)	0.74 (-)	5.63	1.410	25	532-0225-2533
- / 250	10.28	2.85 (-)	0.74 (-)	6.22	1.545	25	532-0250-2533
11 / 280	11.46	2.55 (-)	0.59 (-)	6.93	1.745	25	532-0280-2533
- / 300	12.24	2.30 (-)	0.59 (-)	7.40	1.880	25	532-0300-2533
- / 315	12.83	2.25 (-)	0.59 (-)	7.76	1.980	25	532-0315-2533
14 / 356	14.45	1.95 (-)	0.44 (-)	8.74	2.215	25	532-0356-2533
- / 400	16.18	1.75 (-)	0.44 (-)	9.76	2.485	25	532-0400-2533

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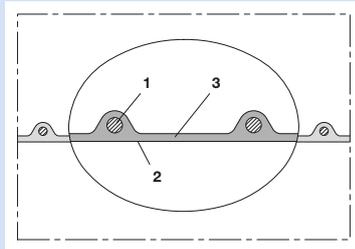
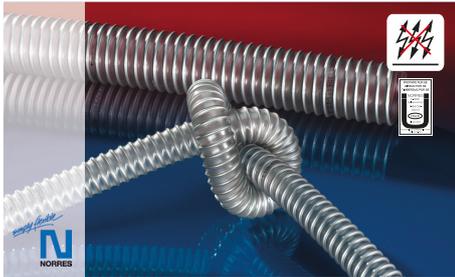


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Antistatic polyurethane hose for the woodworking industry, heavy, flame-retardant

Applications

- extraction unit, dust collection systems, filter system, oil mist extraction
- explosion hazard area
- wood dust extraction, wood chips: furniture production, saw mill
- wood dust extraction: vertical panel saw, saw, woodworking machine, edge processing machine, parquet flooring grinding machine

Properties

- heavy duty
- highly abrasion resistant
- increased pressure and vacuum resistance
- microbe resistant
- good resistance to oil, gasoline, and chemicals
- 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 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

1. spring steel wire firmly embedded in the wall
2. wall: permanently antistatic premium polyurethane (Pre-PUR®), resistant to aggressive wood types and wood preservatives
3. wall thickness 0.03 inch approximate

Delivery variants

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

I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Production Length	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	
- / 40	1.89	22.55	13.88	1.26	0.235	-	25 50	533-0040-0000
1.75 / 44-45	2.09	20.15	12.40	1.38	0.255	-	25 50	533-0045-0000
2 / 50-51	2.28	18.15	11.22	1.50	0.280	-	25 50	533-0050-0000
2.36 / 60	2.68	15.25	9.30	1.73	0.330	-	25 50	533-0060-0000
2.5 / 63-65	2.87	14.05	8.56	1.85	0.355	-	25 50	533-0065-0000
- / 70	3.11	13.05	5.46	1.97	0.375	-	25 50	533-0070-0000
3 / 75-76	3.31	12.20	5.17	2.09	0.405	-	25 50	533-0075-0000
- / 80	3.50	11.45	4.72	2.20	0.425	-	25 50	533-0080-0000
3.5 / 89-90	3.90	10.25	4.28	2.44	0.475	-	25 50	533-0090-0000
4 / 100-102	4.29	9.20	3.99	2.68	0.525	-	25 50	533-0100-0000
- / 110	4.69	8.35	3.69	2.91	0.580	-	25 50	533-0110-0000
4.72 / 120	5.08	7.70	3.40	3.15	0.625	-	25 50	533-0120-0000
5 / 125-127	5.28	7.40	3.25	3.27	0.650	-	25 50	533-0125-0000
- / 130	5.47	7.10	3.10	3.39	0.670	-	25 50	533-0130-0000
5.5 / 140	5.87	6.60	2.81	3.62	0.725	-	25 50	533-0140-0000
6 / 150-152	6.26	6.15	2.21	3.86	0.920	-	25 50	533-0150-0000
6.3 / 160	6.65	5.80	2.07	4.09	0.980	-	25 50	533-0160-0000
- / 170	7.05	5.45	1.92	4.25	1.035	-	25 50	533-0170-0000
7 / 178-180	7.44	5.15	1.77	4.57	1.095	-	25 50	533-0180-0000
8 / 200-203	8.23	4.65	1.62	5.04	1.215	-	25 50	533-0200-0000
- / 225	9.21	4.15	1.48	5.63	1.365	-	25 50	533-0225-0000
- / 250	10.20	3.70	1.33	6.22	1.510	-	25 50	533-0250-0000
11 / 280	11.38	3.35	1.18	6.93	1.685	-	25	533-0280-0000
- / 300	12.17	3.10	1.03	7.40	1.810	-	25	533-0300-0000
- / 315	12.76	2.95	1.03	7.76	1.895	-	25	533-0315-0000

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I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Production Length	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	
- / 325	13.15	2.85	1.03	7.99	1.955	-	25	533-0325-0000
- / 350	14.13	2.70	0.89	8.58	2.105	-	25	533-0350-0000
- / 400	16.10	2.30	0.89	9.76	2.700	-	25	533-0400-0000

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CLAMP 212



CLAMP 210 BRIDGE CLAMP



CLAMP 217



CLAMP 213



CONNECT 228



CONNECT MOULD ASSEMBLY 233



CONNECT THREAD FITTING 234



CONNECT 240 + 241



CONNECT 242



CONNECT 243



CONNECT 244



CONNECT 245



CONNECT 246

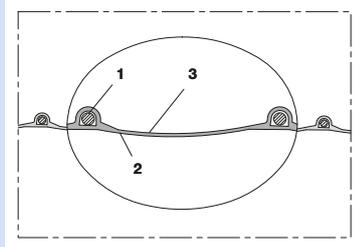
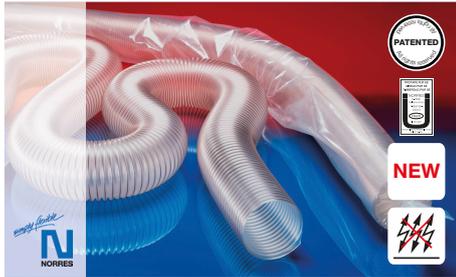


CONNECT 223



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. 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, 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 <math><10^9 \Omega</math>
- in accordance with ATEX 2014/34/EU (1999/92/EC) and German TRGS 727: aspiration of combustible dust (zone 22 inside), for conveying of non-flammable liquids, for use in zone 1 and 2 (gases)
- conforms to the safety regulations of the German Wood Trade Association
- according to DIN 26057 Type 1
- conforms to RoHS guideline

Temperature range

- 40°F to 195°F

- short time to 255°F

Design, material

patented PROTAPE® tape hose

- spring steel wire integrated in the wall
- wall: permanently antistatic premium ester-polyurethane (Pre-PUR®)
- 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. 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.
1.5 / 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

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.



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							
- / 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

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Accessories



CLAMP 212



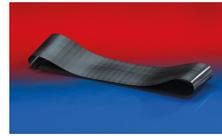
CLAMP 210 BRIDGE
CLAMP



CLAMP 217



CLAMP 213



CONNECT 228

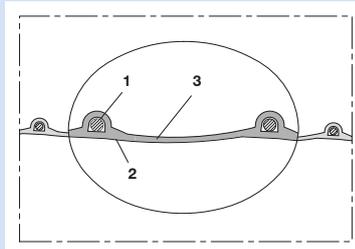
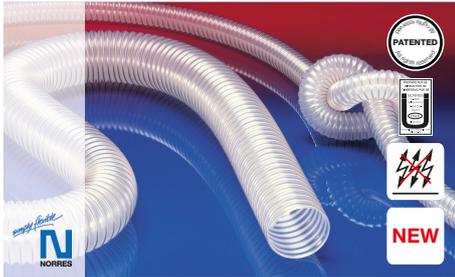


CONNECT 223



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. 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 weight, microbe resistant + flame-retardant

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 <math><10^9 \Omega</math>
- in accordance with ATEX 2014/34/EU (1999/92/EC) and German TRGS 727: aspiration of combustible dust (zone 22 inside), for conveying of non-flammable liquids, for use in zone 1 and 2 (gases)
- conforms to the safety regulations of the German Wood Trade Association
- conforms to RoHS guideline

Temperature range

- 40°F to 195°F
- short time to 255°F

Design, material

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

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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	7.40	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



CLAMP 213



CONNECT 228

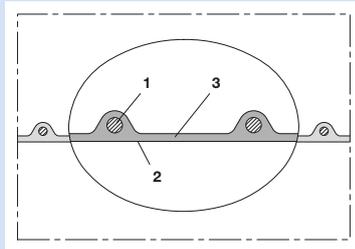


CONNECT 223



CONNECT 270-271

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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

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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/

Accessories

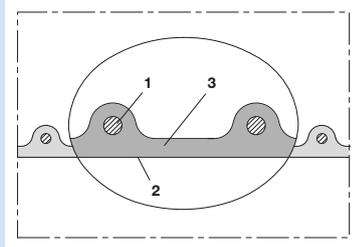


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CONNECT 270-271

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. 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. 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	
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/

Accessories



CLAMP 212

CLAMP 216

CLAMP 212 EC

CLAMP 217

CLAMP 213

CONNECT 228

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CONNECT SAFETY CLAMP ASSEMBLY 231



CONNECT PRESS ASSEMBLY 232



CONNECT MOULD ASSEMBLY 233



CONNECT THREAD FITTING 234



CONNECT 240 + 241



CONNECT 242



CONNECT 243



CONNECT 244



CONNECT 245 VAC-TRUCK



CONNECT 245



CONNECT 246

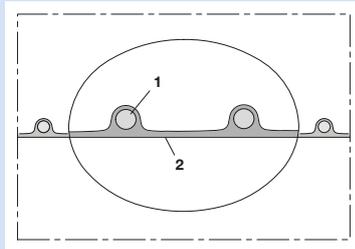


CONNECT 223



CONNECT 270-271

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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	
Standard version								
- / 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	25 50	-	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	25 50	-	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	25 50	-	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	25 50	-	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	25 50	-	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	25 50	-	385-0090-0000
4 / 100-102	4.33	4.05 (-)	3.85 (-)	3.54	0.505	25 50	-	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	25 50	-	385-0125-0000
- / 130	5.55	2.90 (-)	2.65 (-)	4.13	0.805	-	25 50	385-0130-0000
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

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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	
flexible type, black (none antistatic / none flame-retardant)								
- / 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

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 208



CONNECT 228

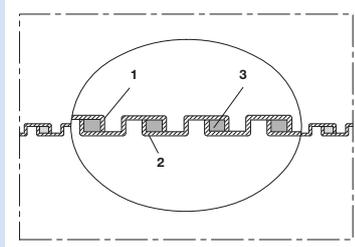


CONNECT 223



CONNECT 270-271

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Metal hose, suction hose (up to +248°F)

Applications

- hose/ ducting for high volume of abrasive powder, bulk material, granulate and for gases
- extraction unit, dust collection systems, filter system, oil mist extraction
- explosion hazard area
- wood dust extraction, wood chips: furniture production, saw mill
- paper mill, paper and pulp industry, packaging machine: edge strip suctioning system/ edge trim exhaust systems
- high temperature extraction: oven, foundry, furnace, smelting, ceramics industry, glass industry, steel plant, aluminium mill

Properties

- abrasion-resistant
- electrically conductive wall: electrical and surface resistance <math><10^3 \Omega</math>
- in accordance with ATEX 2014/34/EU (1999/92/EC) and German TRGS 727: pneumatic transport of flammable dusts and bulk materials (Zone 20, 21, 22 inside), aspiration of combustible dusts (Zone 22 inside), for use in zone 1 and 2 (gases), for use in Zone 0 (gases)
- conforms to RoHS guideline

Temperature range

- 250°F

Design, material

Metal hose

1. profiled metal strip, galvanized steel
2. hooked profile
3. seal: special fiber

Delivery variants

- further diameters and lengths available on request
- without sealing or with rubber sealing

I.D.	O.D.	Bending Radius	Weight	Production Length	Order No.
in / mm	in	in	lbs./ft	ft	
- / 20	0.94	3.54	0.230	8 16 32.5	375-0020-0000
1 / 25	1.14	3.84	0.280	8 16 32.5	375-0025-0000
- / 30	1.34	4.50	0.335	8 16 32.5	375-0030-0000
1.25 / 32	1.42	4.88	0.355	8 16 32.5	375-0032-0000
1.36 / 35	1.54	5.22	0.390	8 16 32.5	375-0035-0000
1.5 / 38	1.65	5.35	0.425	8 16 32.5	375-0038-0000
- / 40	1.75	5.31	0.470	8 16 32.5	375-0040-0000
1.75 / 44-45	1.97	5.61	0.495	8 16 32.5	375-0045-0000
2 / 50-51	2.17	6.10	0.545	8 16 32.5	375-0050-0000
- / 55	2.36	6.79	0.605	8 16 32.5	375-0055-0000
2.36 / 60	2.60	7.28	0.680	8 16 32.5	375-0060-0000
2.5 / 63-65	2.80	7.78	0.730	8 16 32.5	375-0065-0000
- / 70	3.00	8.07	0.785	8 16 32.5	375-0070-0000
3 / 75-76	3.19	8.56	0.840	8 16 32.5	375-0075-0000
- / 80	3.39	9.06	0.895	8 16 32.5	375-0080-0000
3.5 / 89-90	3.82	9.25	1.195	8 16 32.5	375-0090-0000
4 / 100-102	4.21	9.84	1.330	8 16 32.5	375-0100-0000
- / 110	4.61	10.83	1.460	8 16 32.5	375-0110-0000
4.72 / 120	5.00	12.60	1.585	8 16 32.5	375-0120-0000
5 / 125-127	5.20	13.29	1.645	8 16 32.5	375-0125-0000
- / 130	5.47	13.58	1.920	8 16 32.5	375-0130-0000
5.5 / 140	5.87	14.17	2.065	8 16 32.5	375-0140-0000
6 / 150-152	6.26	15.16	2.210	8 16 32.5	375-0150-0000
6.3 / 160	6.65	16.14	2.350	8 16 32.5	375-0160-0000
- / 170	7.05	17.13	2.500	8 16 32.5	375-0170-0000
7 / 178-180	7.44	17.91	2.640	8 16 32.5	375-0180-0000
8 / 200-203	8.31	18.11	3.510	8 16 32.5	375-0200-0000
- / 225	9.29	20.37	3.940	8 16 32.5	375-0225-0000

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. 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.	Bending Radius	Weight	Production Length	Order No.
in / mm	in	in	lbs./ft	ft	
- / 250	10.28	22.64	4.370	8 16	375-0250-0000
- / 275	11.26	24.90	4.790	8 16	375-0275-0000
- / 300	12.24	27.56	5.230	8 16	375-0300-0000

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Accessories



CONNECT 270-271



CONNECT 202



CONNECT 203-204

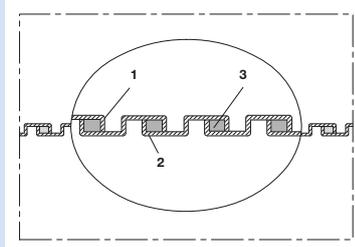


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Positive and negative pressure ratings are the recommended maximum operating values. Products can be manufactured to meet higher operating values upon request. The bend radius is calculated from the center of the hose in an arched position. Additional 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.



Metal hose, suction hose (up to +752°F)

Applications

- hose/ ducting for high volume of abrasive powder, bulk material, granulate and for gases
- extraction unit, dust collection systems, filter system, oil mist extraction
- explosion hazard area
- wood dust extraction, wood chips: furniture production, saw mill
- paper mill, paper and pulp industry, packaging machine: edge strip suctioning system/ edge trim exhaust systems
- high temperature extraction: oven, foundry, furnace, smelting, ceramics industry, glass industry, steel plant, aluminium mill

Properties

- abrasion-resistant
- very good heat resistance
- flame-retardant
- electrically conductive wall: electrical and surface resistance $<10^9 \Omega$
- 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 use in zone 1 and 2 (gases), for use in Zone 0 (gases)
- conforms to RoHS guideline

Temperature range

- 750°F

Design, material

Metal hose

1. profiled metal strip, galvanized steel
2. hooked profile
3. seal: glass fiber

Delivery variants

- further diameters and lengths available on request
- without sealing or with rubber sealing

I.D.	O.D.	Bending Radius	Weight	Production	
				Length	Order No.
in / mm	in	in	lbs./ft	ft	
- / 20	0.94	3.54	0.235	32.5	375-0020-2880
1 / 25	1.14	3.84	0.290	32.5	375-0025-2880
- / 30	1.34	4.50	0.345	32.5	375-0030-2880
1.25 / 32	1.42	4.88	0.370	32.5	375-0032-2880
1.36 / 35	1.54	5.22	0.395	32.5	375-0035-2880
1.5 / 38	1.65	5.35	0.435	32.5	375-0038-2880
- / 40	1.75	5.31	0.455	32.5	375-0040-2880
1.75 / 44-45	1.97	5.61	0.510	32.5	375-0045-2880
2 / 50-51	2.17	6.10	0.565	32.5	375-0050-2880
- / 55	2.36	6.79	0.605	32.5	375-0055-2880
2.36 / 60	2.60	7.28	0.680	32.5	375-0060-2880
2.5 / 63-65	2.80	7.78	0.730	32.5	375-0065-2880
- / 70	3.00	8.07	0.785	32.5	375-0070-2880
3 / 75-76	3.19	8.56	0.840	32.5	375-0075-2880
- / 80	3.39	9.06	0.900	32.5	375-0080-2880
3.5 / 89-90	3.82	9.25	1.245	32.5	375-0090-2880
4 / 100-102	4.21	9.84	1.370	32.5	375-0100-2880
- / 110	4.61	10.83	1.505	32.5	375-0110-2880
4.72 / 120	5.00	12.60	1.640	32.5	375-0120-2880
5 / 125-127	5.20	13.29	1.705	32.5	375-0125-2880
- / 130	5.47	13.58	1.970	32.5	375-0130-2880
5.5 / 140	5.87	14.17	2.105	32.5	375-0140-2880
6 / 150-152	6.26	15.16	2.250	32.5	375-0150-2880
6.3 / 160	6.65	16.14	2.400	32.5	375-0160-2880
- / 170	7.05	17.13	2.500	32.5	375-0170-2880
7 / 178-180	7.44	17.91	2.695	32.5	375-0180-2880
8 / 200-203	8.31	18.11	3.705	16 32.5	375-0200-2880
- / 225	9.29	20.37	4.155	16 32.5	375-0225-2880

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.

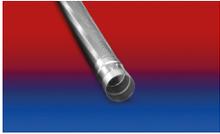
METAL HOSE 375 HT



I.D.	O.D.	Bending Radius	Weight	Production Length	Order No.
in / mm	in	in	lbs./ft	ft	
- / 250	10.28	22.64	4.605	16	375-0250-2880
- / 275	11.26	24.90	5.055	16	375-0275-2880
- / 300	12.24	27.56	5.510	16	375-0300-2880

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Accessories



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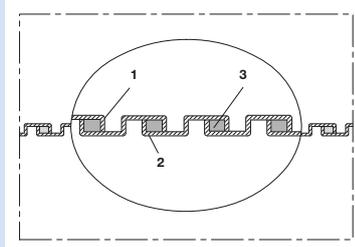


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Metal hose, stainless steel (INOX), suction hose (up to +1,112°F)

Applications

- hose/ ducting for high volume of abrasive powder, bulk material, granulate and for gases
- extraction unit, dust collection systems, filter system, oil mist extraction
- explosion hazard area
- wood dust extraction, wood chips: furniture production, saw mill
- paper mill, paper and pulp industry, packaging machine: edge strip suctioning system/ edge trim exhaust systems
- high temperature extraction: oven, foundry, furnace, smelting, ceramics industry, glass industry, steel plant, aluminium mill

Properties

- abrasion-resistant
- extremely heat resistant
- good resistance to alkalis and acids
- extremely good resistance to chemicals
- flame-retardant
- electrically conductive wall: electrical and surface resistance <math><10^3 \Omega</math>
- in accordance with ATEX 2014/34/EU (1999/92/EC) and German TRGS 727: pneumatic transport of flammable dusts and bulk materials (Zone 20, 21, 22 inside), aspiration of combustible dusts (Zone 22 inside), for use in zone 1 and 2 (gases), for use in Zone 0 (gases)
- conforms to RoHS guideline

Temperature range

- 1.100°F

Design, material

Metal hose

1. profiled metal strip, stainless steel (INOX)
2. hooked profile
3. seal: glass fiber

Delivery variants

- further diameters and lengths available on request

I.D.	O.D.	Bending Radius	Weight	Production Length	Order No.
in / mm	in	in	lbs./ft	ft	
- / 20	0.94	3.54	0.235	16 32.5	376-0020-0000
1 / 25	1.14	3.84	0.290	16 32.5	376-0025-0000
- / 30	1.34	4.50	0.345	16 32.5	376-0030-0000
1.25 / 32	1.42	4.88	0.370	16 32.5	376-0032-0000
1.36 / 35	1.54	5.22	0.395	16 32.5	376-0035-0000
1.5 / 38	1.65	5.35	0.435	16 32.5	376-0038-0000
- / 40	1.75	5.31	0.455	16 32.5	376-0040-0000
1.75 / 44-45	1.97	5.61	0.510	16 32.5	376-0045-0000
2 / 50-51	2.17	6.10	0.565	16 32.5	376-0050-0000
- / 55	2.36	6.79	0.605	16 32.5	376-0055-0000
2.36 / 60	2.60	7.28	0.680	16 32.5	376-0060-0000
2.5 / 63-65	2.80	7.78	0.730	16 32.5	376-0065-0000
- / 70	3.00	8.07	0.785	16 32.5	376-0070-0000
3 / 75-76	3.19	8.56	0.840	16 32.5	376-0075-0000
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- / 110	4.61	10.83	1.505	16 32.5	376-0110-0000
4.72 / 120	5.00	12.60	1.640	16 32.5	376-0120-0000
5 / 125-127	5.20	13.29	1.705	16 32.5	376-0125-0000
- / 130	5.47	13.58	1.960	16 32.5	376-0130-0000
5.5 / 140	5.87	14.17	2.105	16 32.5	376-0140-0000
6 / 150-152	6.26	15.16	2.250	16 32.5	376-0150-0000
6.3 / 160	6.65	16.14	2.400	16 32.5	376-0160-0000
- / 170	7.05	17.13	2.500	16 32.5	376-0170-0000
7 / 178-180	7.44	17.91	2.695	16 32.5	376-0180-0000
8 / 200-203	8.31	18.11	3.705	16	376-0200-0000
- / 225	9.29	20.37	4.155	16	376-0225-0000

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I.D.	O.D.	Bending Radius	Weight	Production Length	Order No.
in / mm	in	in	lbs./ft	ft	
- / 250	10.28	22.64	4.605	16	376-0250-0000
- / 275	11.26	24.90	5.055	16	376-0275-0000
- / 300	12.24	27.56	5.510	16	376-0300-0000

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Accessories



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