



NORRES INDUSTRIAL HOSES SUCTION AND DISPOSAL VEHICLES



Suction excavator

Recommended by NORRES customers:

AIRDUC® PUR 356 AS

Proven Alternatives:

AIRDUC® PUR 357 VAC-TRUCK

AIRDUC® PUR 355 VAC-TRUCK ORANGE



Suction vehicle:

Sewer cleaning, sewage cleaning

Recommended by NORRES customers:

NORPLAST® PVC 389 SUPERELASTIC

Proven Alternatives:

AIRDUC® PUR 356 AS

NORPLAST® PVC 379 GREEN SUPERELASTIC

NORPLAST® PVC 389 SUPERELASTIC PLUS

Vacuum truck, suction vehicle:

Roof gravelling, roof gravel conveying

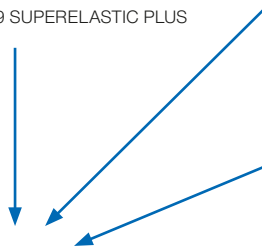
Recommended by NORRES customers:

AIRDUC® PUR 356 AS

NORPLAST® PUR 387

Proven Alternatives:

AIRDUC® PUR 355 VAC-TRUCK REINFORCED



Vacuum truck, suction vehicle, dry suction truck: Industrial cleaning, furnace cleaning

Recommended by NORRES customers:

AIRDUC® PUR 356 AS

NORPLAST® PUR 387

Proven Alternatives:

AIRDUC® PUR 355 VAC-TRUCK REINFORCED

AIRDUC® PUR 356 EC

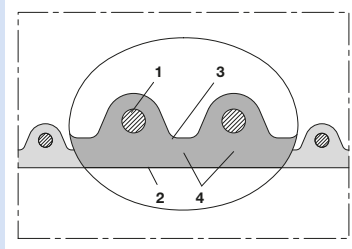
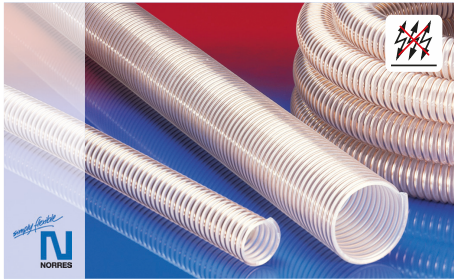
NORPLAST® PVC 389 SUPERELASTIC

NORPLAST® PVC 389 AS-SUPERELASTIC

NORPLAST® PVC 389 SUPERELASTIC PLUS

NORPLAST® PUR-C 387 AS





Antistatic polyurethane hose, super-heavy duty, microbe resistant

Applications

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

- surface preparation: shot blasting/ sand blasting recovery (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 <math><10^9 \Omega</math> and in accordance with TRGS 727 <math><2,5 \cdot 10^8 \Omega</math>
- in accordance with ATEX 2014/34/EU (1999/92/EC) and German TRGS 727: pneumatic transport of flammable dusts and bulk materials (Zone 20, 21, 22 inside), aspiration of combustible dusts (Zone 22 inside), for conveying

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

1. spring steel wire firmly embedded in the wall
2. 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

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	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

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Accessories



CLAMP 216



CLAMP 211



CONNECT 228



CONNECT SAFETY CLAMP ASSEMBLY 231



CONNECT PRESS ASSEMBLY 232



CONNECT MOULD ASSEMBLY 233



CONNECT THREAD FITTING 234



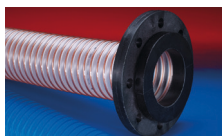
CONNECT 240 + 241



CONNECT 242



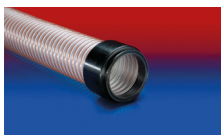
CONNECT 243



CONNECT 244



CONNECT 245 VAC-TRUCK

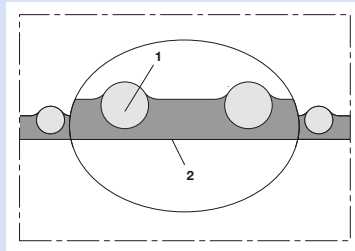
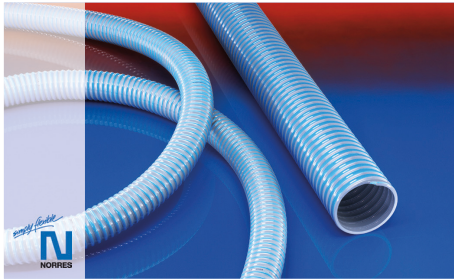


CONNECT 245



CONNECT 246

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.



PVC hose, super-heavy duty, flexible at low temp. (down to -13°F)

Applications

- hose/ ducting for liquids and for powder, bulk material, granulate and for gases
- suction vehicle: sewer cleaning, sewage cleaning
- vacuum truck, suction vehicle, dry suction truck: industrial cleaning, furnace cleaning
- airport, airplane, rail vehicle, train, railway, boat, ship/ vessel, yacht: lavatory waste
- agricultural industry: irrigation, fertilizers, insecticides
- agricultural industry: manure spreader, slurry spreader, slurry tanker

Properties

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

Temperature range

- -15°F to 140°F

Design, material

NORPLAST® full plastic hose

1. outer hard plastic spiral; spiral: rigid PVC
2. smooth interior; wall: high grade low temperature flexible soft PVC

Delivery variants

- further diameters and lengths available on request
- gray and blue partially colored (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	
1 / 25	1.30	87.00 (-)	26.60 (-)	2.85	0.275	-	50 100	389-0025-1012
- / 30	1.50	87.00 (-)	26.60 (-)	3.54	0.370		50 100	389-0030-1012
1.25 / 32	1.57	50.75 (-)	26.60 (-)	3.70	0.405		50 100	389-0032-1012
1.36 / 35	1.73	46.40 (-)	26.60 (-)	4.04	0.425		50 100	389-0035-1012
1.5 / 38	1.85	43.50 (-)	26.60 (-)	4.37	0.470		50 100	389-0038-1012
- / 40	1.93	43.50 (-)	26.60 (-)	4.50	0.490		50 100	389-0040-1012
2 / 50-51	2.40	40.60 (-)	26.60 (-)	5.69	0.670		50 100	389-0051-1012
2.36 / 60	2.76	37.70 (-)	26.60 (-)	6.89	0.840		50 100	389-0060-1012
2.5 / 63-65	2.91	34.80 (-)	20.65 (-)	7.42	0.935		50 100	389-0063-1012
- / 70	3.19	31.90 (-)	26.60 (-)	7.68	1.075		50 100	389-0070-1012
3 / 75-76	3.43	29.00 (-)	20.65 (-)	8.74	1.140	50 100	-	389-0076-1012
- / 80	3.66	26.10 (-)	20.65 (-)	9.25	1.245		50 100	389-0080-1012
3.5 / 89-90	4.06	24.65 (-)	20.65 (-)	10.63	1.445	50 100	-	389-0090-1012
4 / 100-102	4.57	21.75 (-)	25.10 (-)	11.57	1.815	50 100	-	389-0102-1012
- / 110	4.88	19.60 (-)	25.10 (-)	12.80	2.015		100	389-0110-1012
4.72 / 120	5.31	29.00 (-)	17.70 (-)	13.78	2.250		50 100	389-0120-1012
5 / 125-127	5.59	17.40 (-)	25.10 (-)	14.43	2.420		50 100	389-0127-1012
6 / 150-152	6.69	14.50 (-)	17.70 (-)	17.68	3.360		50	389-0152-1012

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/

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Accessories

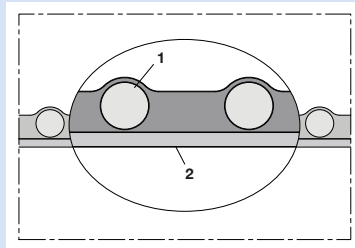
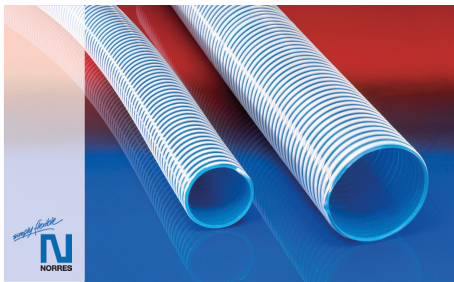


CLAMP 211



CONNECT 270-271

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Polyurethane hose, super-heavy duty

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

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	
standard type, inliner blue							
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

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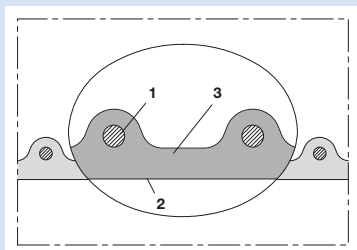
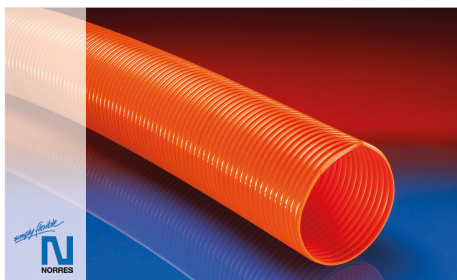


Accessories



CLAMP 211

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Vacuum truck hose, heavy duty and reinforced, very flexible

Applications

- suction excavator
- municipal vehicle: sweeper, sweeping machine

Properties

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

- conforms to RoHS guideline

Temperature range

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

Design, material

AIRDUC® profile hose

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

4. reinforcement of the primary abrasion areas

Delivery variants

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

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

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Accessories



CLAMP 211

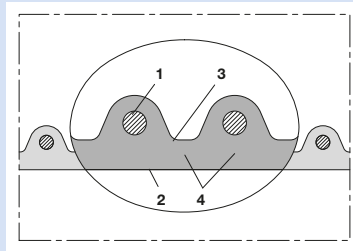


CONNECT 240 + 241



CONNECT 270-271

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Electrically conductive polyurethane hose, super-heavy duty

Applications

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

Properties

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

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

Temperature range

- -40°F to 195°F

Design, material

AIRDUC® profile hose

1. spring steel wire firmly embedded in the wall
2. 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/

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.



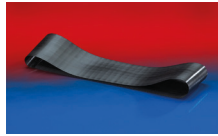
Accessories



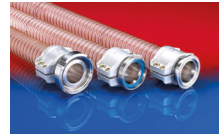
CLAMP 216



CLAMP 211



CONNECT 228



CONNECT SAFETY
CLAMP ASSEMBLY
231



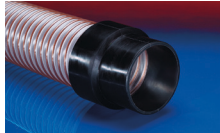
CONNECT PRESS
ASSEMBLY 232



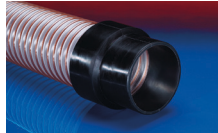
CONNECT MOULD
ASSEMBLY 233



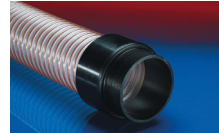
CONNECT THREAD
FITTING 234



CONNECT 240 + 241



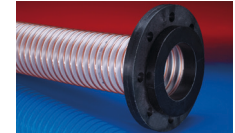
CONNECT 240 EC



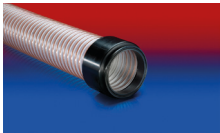
CONNECT 242



CONNECT 243



CONNECT 244



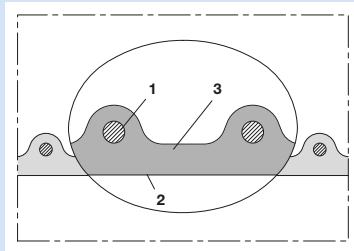
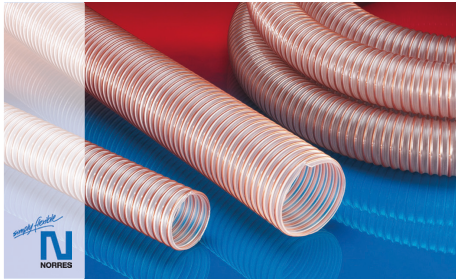
CONNECT 245



CONNECT 246

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.

AIRDUC® PUR 355 VAC-TRUCK REINFORCED



Vacuum hose, heavy duty and reinforced

Applications

- flexible hose/ ducting for high volume 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
- concrete pump: outlet hose, discharge hose
- construction industry: rock drill, rock drilling machine

- extremely abrasion-resistant with reinforcement underneath wire
- increased pressure and vacuum resistance
- good resistance to oil, gasoline, and chemicals
- very good low temperature flexibility
- conforms to RoHS guideline

- 2. wall: special premium ester-polyurethane (Pre-PUR®)
- 3. wall thickness 0.10 inch approximate

Delivery variants

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

Properties

- heavy duty and reinforced

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

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	
- / 85	3.94	30.15	22.15	6.99	1.290	-	25 50	355-0085-2530
4 / 100-102	4.50	25.75	19.80	8.00	1.600	25 50	-	355-0100-2530
5 / 125-127	5.59	20.40	13.60	9.78	1.995	25 50	-	355-0127-2530
6 / 150-152	6.57	17.10	11.35	11.46	2.360	25 50	-	355-0152-2530

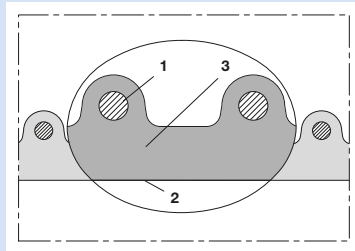
Positive and negative pressure ratings are the recommended maximum operating values. Products can be manufactured to meet higher operating values upon request. The bend radius is calculated from the center of the hose in an arched position. NORRES reserves the right to modify technical data at any time. 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

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.



Vacuum truck hose, super-heavy duty and extremely reinforced

Applications

- hose/ ducting for high throughput of extremely abrasive bulk material, granulate and stone
- suction excavator
- concrete pump: outlet hose, discharge hose
- construction industry: rock drill, rock drilling machine
- raw material conveying hose for powders, granulates, sand, quartz, gravel, shards and chips/shavings

Properties

- super-heavy duty and extremely reinforced

- extremely abrasion-resistant with extremely thick polyurethane wall
- very high pressure, vacuum and compression resistance
- good resistance to oil, gasoline, and chemicals
- very good low temperature flexibility
- conforms to RoHS guideline

Temperature range

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

Design, material

AIRDUC® profile hose

1. spring steel wire firmly embedded in the wall

2. wall: special premium ester-polyurethane (Pre-PUR®)
3. wall thickness 0.16 - 0.2 inch approximate

Delivery variants

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

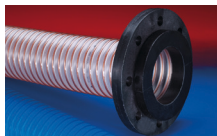
I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	
4 / 100	4.84	43.75	29.55	21.65	2.50	25	-	357-0100-0000
5 / 127	5.83	35.45	27.46	26.44	3.044	25	-	357-0127-0000
6 / 152	6.89	29.80	22.89	38.35	3.60	25	-	357-0152-0000
8 / 200	8.78	22.65	20.67	57.09	5.13	25	-	357-0200-0000
- / 250	10.75	18.20	16.54	73.82	6.34	25	-	357-0250-0000

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

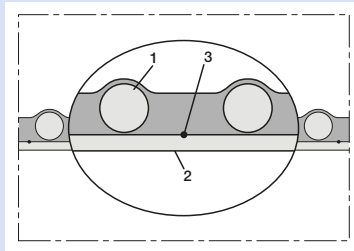
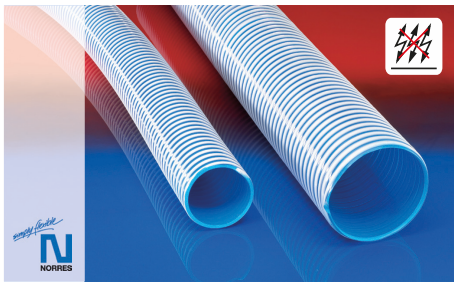


CLAMP 211



CONNECT 244

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-heavy duty, grounding wire

Applications

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

Properties

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

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

Temperature range

- -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
2. 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 Radius	Weight	Stock length	Order No.
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

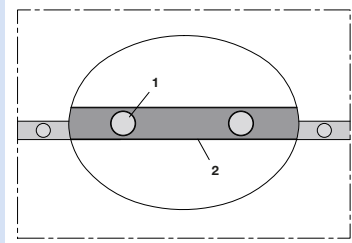
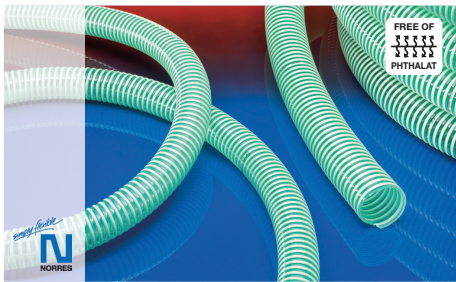
Positive and negative pressure ratings are the recommended maximum operating values. Products can be manufactured to meet higher operating values upon request. The bend radius is calculated from the center of the hose in an arched position. NORRES reserves the right to modify technical data at any time. 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

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PVC hose, heavy duty, flexible at low temp. (down to -13°F)

Applications

- flexible hose/ ducting for liquids and for powder, bulk material, granulate and for gases
- suction vehicle: sewer cleaning, sewage cleaning
- agricultural industry: irrigation, fertilizers, insecticides
- agricultural industry: manure spreader, slurry spreader, slurry tanker
- agricultural industry, conveying of seed and fertilizers: seeding machine, seed drill, drilling machine
- caravan/ trailer, mobile home/ camper/ RV, boat, ship/ vessel, yachts: sanitary installation, water supply

Properties

- heavy duty
- good resistance to alkalis and acids
- good resistance to chemicals
- very good low temperature flexibility
- conforms to RoHS guideline

Temperature range

- 15°F to 140°F

Design, material

NORPLAST® full plastic hose

- hard plastic spiral integrated in the wall; spiral: rigid PVC

2. smooth interior; wall: low temperature flexible soft PVC

Delivery variants

- further diameters and lengths available on request
- green-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								
3/4 / 19	0.94	72.50 (-)	17.70 (-)	3.80	0.170	-	50 100	379-0019-0000
- / 20	1.00	72.50 (-)	17.70 (-)	3.98	0.170	-	50 100	379-0020-0000
1 / 25	1 1/8	72.50 (-)	17.70 (-)	4.86	0.220	50 100	-	379-0025-0000
- / 30	1.40	62.15 (-)	17.70 (-)	5.81	0.250	50 100	-	379-0030-0000
1.25 / 32	1.50	58.00 (-)	17.70 (-)	6.19	0.300	50 100	-	379-0032-0000
1.5 / 38	1.73	58.00 (-)	17.70 (-)	7.24	0.330	50 100	-	379-0038-0000
- / 40	1.81	43.50 (-)	14.75 (-)	7.60	0.420	-	50 100	379-0040-0000
2 / 50-51	2.28	43.50 (-)	14.75 (-)	9.54	0.600	50 100	-	379-0050-0000
smaller bending radius , color: transparent, spiral: grey								
- / 30	1.42	58.00 (-)	17.70 (-)	4.95	0.23	50 100	-	379-0030-4726
1.25 / 32	1.50	58.00 (-)	17.70 (-)	5.10	0.24	50 100	-	379-0032-4726

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

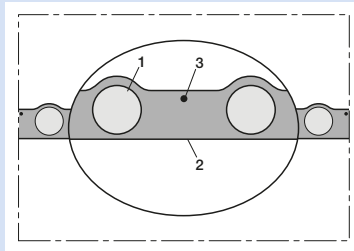


CLAMP 211



CONNECT 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 PVC hose, super-heavy duty, flexible at low temp., grounding wire (down to -13°F)

Applications

- hose/ ducting for liquids and for powder, bulk material, granulate and for gases
- vacuum truck, suction vehicle, dry suction truck: industrial cleaning, furnace cleaning
- explosion hazard area

Properties

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

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

Temperature range

- -15°F to 140°F

Design, material

NORPLAST® full plastic hose

1. outer hard plastic spiral; spiral: rigid PVC
2. smooth interior; wall: high grade antistatic and low temperature flexible soft PVC
3. grounding wire

Delivery variants

- further diameters and lengths available on request
- gray and blue partially colored (standard)
- special colors: colored spiral, full 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	
1 / 25	1.30	87.00 (-)	26.60 (-)	2.85	0.275	-	50 100	389-0025-2878
- / 30	1.50	87.00 (-)	26.60 (-)	3.54	0.370	-	50 100	389-0030-2878
1.25 / 32	1.57	87.00 (-)	26.60 (-)	3.70	0.405	-	50 100	389-0032-2878
1.36 / 35	1.73	72.50 (-)	26.60 (-)	4.04	0.425	-	50 100	389-0035-2878
1.5 / 38	1.85	72.50 (-)	26.60 (-)	4.37	0.470	-	50 100	389-0038-2878
- / 40	1.93	72.50 (-)	26.60 (-)	4.50	0.490	-	50 100	389-0040-2878
2 / 50-51	2.40	58.00 (-)	26.60 (-)	5.69	0.670	-	50 100	389-0051-2878
2.36 / 60	2.76	58.00 (-)	26.60 (-)	6.89	0.840	-	50 100	389-0060-2878
2.5 / 63-65	2.91	58.00 (-)	26.60 (-)	7.42	0.935	-	50 100	389-0063-2878
- / 70	3.19	43.50 (-)	26.60 (-)	7.68	1.075	-	50 100	389-0070-2878
3 / 75-76	3.43	43.50 (-)	26.60 (-)	8.74	1.140	-	50 100	389-0076-2878
- / 80	3.66	36.25 (-)	26.60 (-)	9.25	1.245	-	50 100	389-0080-2878
3.5 / 89-90	4.06	36.25 (-)	26.60 (-)	10.63	1.445	-	50 100	389-0090-2878
4 / 100-102	4.57	36.25 (-)	25.10 (-)	11.57	1.815	-	50 100	389-0102-2878
- / 110	4.88	29.00 (-)	25.10 (-)	12.80	2.015	-	50 100	389-0110-2878
4.72 / 120	5.31	29.00 (-)	25.10 (-)	13.78	2.250	-	50 100	389-0120-2878
5 / 125-127	5.59	29.00 (-)	25.10 (-)	14.43	2.420	-	50 100	389-0127-2878
6 / 150-152	6.69	29.00 (-)	23.60 (-)	17.68	3.360	-	50	389-0152-2878

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/

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Accessories

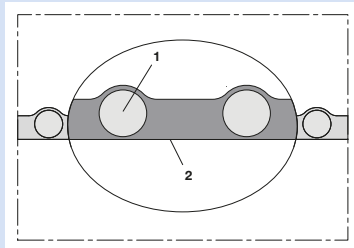


CLAMP 211



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.



PVC hose, heavy duty, flexible at low temp. (down to -40°F)

Applications

- hose/ ducting for liquids and for powder, bulk material, granulate and for gases
- suction vehicle: sewer cleaning, sewage cleaning
- vacuum truck, suction vehicle, dry suction truck: industrial cleaning, furnace cleaning
- airport, airplane, rail vehicle, train, railway, boat, ship/ vessel, yacht: lavatory waste
- agricultural industry: irrigation, fertilizers, insecticides
- agricultural industry: manure spreader, slurry spreader, slurry tanker

Properties

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

Temperature range

- -40°F to 140°F

Design, material

NORPLAST® full plastic hose

1. hard plastic spiral integrated in the wall; spiral: impact-resistant modified rigid PVC
2. smooth interior; wall: high grade low temperature flexible soft PVC

Delivery variants

- further diameters and lengths available on request
- gray (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	
1 / 25	1.30	58.00 (-)	26.60 (-)	2.85	0.275	-	50 100	389-0025-0000
- / 30	1.50	87.00 (-)	23.60 (-)	3.54	0.370		50 100	389-0030-0000
1.25 / 32	1.57	50.75 (-)	23.60 (-)	3.70	0.405		50 100	389-0032-0000
1.36 / 35	1.73	72.50 (-)	23.60 (-)	4.04	0.425		50 100	389-0035-0000
1.5 / 38	1.85	72.50 (-)	26.60 (-)	4.37	0.470		50 100	389-0038-0000
- / 40	1.93	72.50 (-)	26.60 (-)	4.50	0.490		50 100	389-0040-0000
2 / 50-51	2.40	34.80 (-)	26.60 (-)	5.69	0.670		50 100	389-0051-0000
2.36 / 60	2.76	31.90 (-)	20.65 (-)	6.89	0.840		50 100	389-0060-0000
2.5 / 63-65	2.91	30.45 (-)	20.65 (-)	7.42	0.935		50 100	389-0063-0000
- / 70	3.19	43.50 (-)	26.60 (-)	7.68	1.075		50 100	389-0070-0000
3 / 75-76	3.43	27.55 (-)	26.60 (-)	8.74	1.140	50 100	-	389-0076-0000
- / 80	3.66	36.25 (-)	26.60 (-)	9.25	1.245		50 100	389-0080-0000
3.5 / 89-90	4.06	36.25 (-)	26.60 (-)	10.63	1.445	50 100	-	389-0090-0000
4 / 100-102	4.57	21.75 (-)	17.70 (-)	11.57	1.815	50 100	-	389-0102-0000
- / 110	4.88	20.30 (-)	17.70 (-)	12.80	2.015		100	389-0110-0000
4.72 / 120	5.31	18.15 (-)	17.70 (-)	13.78	2.250		50 100	389-0120-0000
5 / 125-127	5.59	29.00 (-)	17.70 (-)	14.43	2.420		50 100	389-0127-0000
6 / 150-152	6.69	29.00 (-)	23.60 (-)	17.68	3.360		50	389-0152-0000

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/

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Accessories



CLAMP 211



CONNECT 270-271

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