

NORRES NDUSTRIAL 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



AIRDUC[®] PUR 356 AS

Image: Second second



Applications

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



- surface preparation: shot blasting/ sand blasting recovery e.g. at blasting chamber, ship yard, stripping machine, flooring preparation machine, grinding machine
- silo, silo vehicle/ silo truck, tanker/ tank truck: silo charging, silo discharging
- silo, silo vehicle/ silo truck, tanker/ tank truck: conveying of wood pellets, plastic granulate, plastic powder

Properties

- super-heavy duty
- extremely abrasion-resistant with reinforcement underneath wire and narrow hose pitch
- very high pressure, vacuum and compression resistance
- microbe resistant
- good resistance to oil, gasoline and chemicals
- very good low temperature flexibility
- permanently antistatic wall: in accordance with ISO 8031 electrical and surface resistance <109 Ω and in accordance with TRGS 727 <2,5 *108 Ω
- in accordance with ATEX 2014/34/EU (1999/92/EC) and German TRGS 727: pneumatic transport of flammable dusts and bulk materials (Zone 20, 21, 22 inside), aspiration of combustible dusts (Zone 22 inside), for conveying

Antistatic polyurethane hose, super-heavy, microbe resistant

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

- according to DIN 26057 Type 4
- conforms to RoHS guideline

Temperature Range

- -40°C to 90°C
- short time to 125°C

Design, Material

- AIRDUC[®] profile hose
- 1. spring steel wire firmly embedded in wall
- 2. wall: permanently antistatic premium ester-polyurethane (Pre-PUR®)
- 3. wall thickness 2,0 to 2,5 mm approx.
- 4. reinforcement of the primary abrasion areas

Delivery variants

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

I.D.	O.D.	Over- pressure	Under- pressure	Bending Radius	Weight	Dimensions in Stock	Order No.
in / mm	mm	bar	bar	mm	kg/m	m	
1,25 / 32	43	5,235	1,000	90	0,680	10 15	356-0032-0000
1,5 / 38	49	4,475	1,000	104	0,790	10 15	356-0038-0000
- / 40	51	4,270	1,000	109	0,820	10 15	356-0040-0000
1,75 / 45	56	3,825	1,000	129	0,910	10 15 20	356-0045-0000
- / 50	61	3,470	1,000	134	1,000	10 15	356-0050-0000
2 / 51	62	3,200	1,000	134	1,020	10 15	356-0051-0000
- / 55	66	3,170	1,000	151	1,090	10 15	356-0055-0000
2,36 / 60	71	2,920	1,000	156	1,180	10 15	356-0060-0000
2,5 / 63-65	74	2,810	1,000	163	1,230	10 15	356-0063-0000
- / 65	76	2,705	1,000	169	1,270	10 15	356-0065-0000
- / 70	82	2,520	1,000	186	1,370	10 15	356-0070-0000
- / 75	87	2,360	1,000	195	1,460	10 15	356-0075-0000
3 / 76	88	2,355	1,000	195	1,470	10 15	356-0076-0000
- / 80	92	2,220	1,000	205	1,550	10 15	356-0080-0000
- / 90	103	2,195	1,000	250	2,060	10 15	356-0090-0000
- / 100	113	1,980	1,000	272	2,270	10 15	356-0100-0000
4 / 102	115	1,890	1,000	272	2,310	10 15	356-0102-0000
- / 110	123	1,805	1,000	300	2,480	10 15	356-0110-0000
4,5 / 115	128	1,730	0,975	317	2,580	10 15	356-0115-0000

24h

in / mm mm bar bar mm kg/m m	356-0120-0000
	356-0120-0000
4,72 / 120 133 1,660 0,930 330 2,690 10 15	
- / 125 138 1,595 0,895 336 2,800 10 15 20	356-0125-0000
5 / 127 140 1,565 0,890 336 2,840 10 15	356-0127-0000
- / 130 143 1,535 0,860 355 2,900 10 15	356-0130-0000
5,5 / 140 153 1,430 0,800 400 3,110 10 15	356-0140-0000
- / 150 163 1,335 0,745 435 3,680 10 15	356-0150-0000
6 / 152 165 1,305 0,835 435 3,720 10 15	356-0152-0000
6,3 / 160 173 1,255 0,700 470 3,910 10 15	356-0160-0000
- / 170 183 1,180 0,660 600 4,150 10 15	356-0170-0000
- / 175 188 1,150 0,640 700 4,260 10 15	356-0175-0000
- / 180 193 1,120 0,620 830 4,380 10 15	356-0180-0000
- / 200 214 1,010 0,560 950 5,940 10 15	356-0200-0000
8 / 203 216 0,955 0,550 950 6,020 10 15	356-0203-0000
- / 225 239 0,900 0,495 1175 6,650 10	356-0225-0000
- / 250 264 0,810 0,445 1300 7,350 2,5 5 10	356-0250-0000
- / 275 289 0,735 0,405 1453 8,070 2,5 5 10	356-0275-0000
- / 300 314 0,675 0,375 1575 8,780 2,5 5 10	356-0300-0000

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

Accessories



CLAMP 216



CLAMP 211



CONNECT 228



CONNECT SAFETY CLAMP ASSEMBLY 231





CONNECT PRESS ASSEMBLY 232



CONNECT 244



CONNECT MOULD ASSEMBLY 233



CONNECT 245 VAC-TRUCK



CONNECT THREAD

FITTING 234

CONNECT 245



CONNECT 246













- hose/ ducting for liquids and for powder, bulk material, granulate and for gases
- suction vehicle: sewer cleaning, sewage cleaningvacuum truck, suction vehicle, dry suction truck:
- industrial cleaning, furnace cleaningairport, airplane, rail vehicle, train, railway, boat,
- ship/vessel, yacht: toilet discharging/ disposal
 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 flexibilityconforms to RoHS guideline

Temperature Range

• -25°C to 60°C

PVC hose, super-heavy, flexible at low temp. (down to -25°C)

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
- grey and blue partially Coloured (standard)
- special colours: coloured spiral, full coloured
- customer-specific branding

I.D.	O.D.	Over- pressure	Under- pressure	Bending Radius	Weight	Dimensions in Stock	Further Production Lengths	Order No.
in / mm	mm	bar	bar	mm	kg/m	m	m	
1 / 25	33	4,000	0,900	72,5	0,410	-	25 50	389-0025-1012
- / 30	38	3,500	0,900	90,0	0,550		25 50	389-0030-1012
1,25 / 32	40	3,500	0,900	94,0	0,600		25 50	389-0032-1012
1,36 / 35	44	3,200	0,900	102,5	0,630		25 50	389-0035-1012
1,5 / 38	47	3,000	0,900	111,0	0,700		25 50	389-0038-1012
- / 40	49	3,000	0,900	115,0	0,730		25 50	389-0040-1012
2 / 50-51	61	2,800	0,900	144,5	1,000		25 50	389-0051-1012
2,36 / 60	70	2,600	0,900	175,0	1,250		25 50	389-0060-1012
2,5 / 63-65	74	2,400	0,900	188,5	1,390		25 50	389-0063-1012
- / 70	81	2,200	0,900	195,0	1,600		25 50	389-0070-1012
3 / 75-76	87	2,000	0,900	222,0	1,700	25 50	-	389-0076-1012
- / 80	93	1,800	0,900	235,0	1,850		25 50	389-0080-1012
3,5 / 89-90	103	1,700	0,900	270,0	2,150	10 30	-	389-0090-1012
4 / 100-102	116	1,500	0,850	294,0	2,700	10 30	-	389-0102-1012
- / 110	124	1,350	0,600	325,0	3,000		30	389-0110-1012
4,72 / 120	135	1,250	0,600	350,0	3,350		30	389-0120-1012
5 / 125-127	142	1,200	0,600	366,5	3,600		10 30	389-0127-1012
6 / 150-152	170	1,000	0,600	449,0	5,000		10 20	389-0152-1012

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



Accessories



CLAMP 211



CONNECT 270-271

NORPLAST® PUR 387





Applications

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



Properties

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

Temperature Range

-20°C to 70°Cshort time to 80°C

Polyurethane hose, super-heavy

Design, Material

NORPLAST® full plastic hose

- 1. hard plastic spiral integrated in wall; spiral: rigid PVC
- smooth interior; wall: premium polyurethane (Pre-PUR®), inside layer 2,0 mm approx. exterior soft PVC

Delivery variants

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

I.D.	O.D.	Over- pressure	Under- pressure	Bending Radius	Weight	Dimensions in Stock	Order No.
in / mm	mm	bar	bar	mm	kg/m	m	
			standard type	e, inliner blue			
3 / 75-76	90	6,000	0,900	512,0	2,200	13,5 30	387-0076-0000
3,5 / 89-90	105	5,500	0,900	595,0	2,600	13,5 30	387-0090-0000
4 / 100-102	118	4,000	0,900	799,0	3,300	13,5 30	387-0102-0000
5 / 125-127	145	3,000	0,900	1036,5	4,200	13,5 30	387-0127-0000
6 / 150-152	173	3,000	0,900	1324,0	6,400	13,5 20	387-0152-0000
			flexible type,	inliner yellow			
5 / 125-127	145	3,000	0,900	1036,5	4,200	13,5 30	387-0127-6007
				Annual Sulface and			
E / 405 407	4.45	0.000	smooth exterior		4.000	40 5 00	007.04.07.0000
5 / 125-127	145	3,000	0,900	1036,5	4,200	13,5 30	387-0127-6008

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

Accessories



CLAMP 211





- 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°C to 90°C
- short time to 125°C

Design, Material

- AIRDUC[®] profile hose
- 1. spring steel wire firmly embedded in wall
- 2. wall: special premium polyurethane (Pre-PUR®)
- 3. wall thickness 2,5 mm approx.

Vacuum truck hose, heavy and reinforced, very flexible

4. reinforcement of the primary abrasion areas

Delivery variants

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

I.D.	O.D.	Over- pressure	Under- pressure	Bending Radius	Weight	Dimensions in Stock	Order No.
in / mm	mm	bar	bar	mm	kg/m	m	
8 / 200-203	213	0,600	0,120	316	5,130	5	355-0200-5202
10 / 254	267	0,482	0,075	407	6,510	5	355-0254-5202
- / 352	365	0,340	0,050	554	9,030	5	355-0352-5202

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

Accessories







CLAMP 211

CONNECT 240 + 241

CONNECT 270-271

AIRDUC® PUR 356 EC





Applications

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

Properties

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



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

Electrically conductive polyurethane hose, super-heavy

Temperature Range • -40°C to 90°C

Design, Material

AIRDUC[®] profile hose

- spring steel wire firmly embedded in wall
 wall: electrically conductive premium ester-polyurethane (Pre-PUR[®])
- 3. wall thickness 2,0 to 2,5 mm approx.
- 4. reinforcement of the primary abrasion areas

Delivery variants

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

I.D.	O.D.	Over- pressure	Under- pressure	Bending Radius	Weight	Dimensions in Stock	Order No.
in / mm	mm	bar	bar	mm	kg/m	m	
1,5 / 38	49	3,810	1,000	104	0,790	10 15	356-0038-1003
- / 40	51	3,635	1,000	109	0,820	10 15	356-0040-1003
- / 50	61	2,950	1,000	134	1,000	10 15	356-0050-1003
2 / 50-51	62	2,800	1,000	134	1,010	10 15	356-0051-1003
2,36 / 60	71	2,485	1,000	156	1,180	10 15	356-0060-1003
2,5 / 63-65	74	2,395	1,000	163	1,240	10 15	356-0063-1003
- / 65	76	2,305	1,000	169	1,270	10 15	356-0065-1003
- / 70	82	2,145	1,000	186	1,370	10 15	356-0070-1003
- / 75	87	2,010	1,000	195	1,460	10 15	356-0075-1003
3 / 76	88	1,995	1,000	195	1,480	10 15	356-0076-1003
- / 80	92	1,890	1,000	205	1,550	10 15	356-0080-1003
- / 100	113	1,685	1,000	272	2,270	10 15	356-0100-1003
4 / 102	115	1,655	1,000	272	2,310	10 15	356-0102-1003

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

Accessories







CLAMP 216

CLAMP 211

CONNECT 228

AIRDUC® PUR 356 EC





CONNECT SAFETY CLAMP ASSEMBLY 231



CONNECT PRESS ASSEMBLY 232



CONNECT MOULD ASSEMBLY 233



CONNECT THREAD FITTING 234



6-0

CONNECT 240 EC



CONNECT 242



CONNECT 243



CONNECT 244



CONNECT 245



CONNECT 246

AIRDUC[®] PUR 355 VAC-TRUCK REINFORCED





Applications

- flexible 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
- concrete pump: outlet hose, discharge hose
- construction industry: rock drill, rock drilling
 machine

Properties

heavy duty and reinforced



- 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

Temperature Range

- -40°C to 90°C
- short time to 125°C

Design, Material

- AIRDUC® profile hose
- 1. spring steel wire firmly embedded in wall

Vacuum truck hose, heavy and reinforced

- 2. wall: special premium ester-polyurethane (Pre-PUR®)
- 3. wall thickness 2,5 mm approx.

Delivery variants

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

I.D.	O.D.	Over- pressure	Under- pressure	Bending Radius	Weight	Dimensions in Stock	Order No.
in / mm	mm	bar	bar	mm	kg/m	m	
- / 85	100	2,080	0,750	178	1,920	10	355-0085-2530
4 / 100-102	115	1,775	0,670	203	2,380	10 15	355-0100-2530
5 / 125-127	142	1,405	0,460	249	2,970	10 15	355-0127-2530
6 / 150-152	167	1,180	0,385	291	3,510	10 15	355-0152-2530

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

Accessories



CLAMP 211

AIRDUC® PUR 357 VAC-TRUCK





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°C to 90°C
- short time to 125°C

Design, Material

AIRDUC[®] profile hose 1. spring steel wire firmly embedded in wall

Vacuum truck hose, super-heavy and extremely reinforced

- 2. wall: special premium ester-polyurethane (Pre-PUR®)
- 3. wall thickness 4,0 to 5,0 mm approx.

Delivery variants

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

I.D.	O.D.	Over- pressure	Under- pressure	Bending Radius	Weight	Dimensions in Stock	Order No.
in / mm	mm	bar	bar	mm	kg/m	m	
4 / 100	123	3,015	1,000	550	3,72	10	357-0100-0000
5 / 127	148	2,445	0,930	672	4,53	10	357-0127-0000
6 / 152	175	2,055	0,775	974	5,35	10	357-0152-0000
8 / 200	223	1,560	0,700	1450	7,63	5	357-0200-0000
- / 250	273	1,255	0,560	1875	9,43	5	357-0250-0000

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

Accessories



CLAMP 211



CONNECT 244

NORPLAST® PUR-C 387 AS





Applications

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

Properties

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



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

Temperature Range

• -20°C to 70°C

Antistatic polyurethane hose, super-heavy, grounding wire

• short time to 80°C

Design, Material

- NORPLAST® full plastic hose
- 1. hard plastic spiral integrated in wall; spiral: rigid PVC
- 2. smooth interior; Wall: antistatic polyurethane
- inside layer 2,0 mm approx., exterior soft PVC 3. grounding wire

Delivery variants

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

I.D.	O.D.	Over- pressure	Under- pressure	Bending Radius	Weight	Dimensions in Stock	Order No.
in / mm	mm	bar	bar	mm	kg/m	m	
3 / 75-76	92	6,0	0,9	512,0	2,200	13,5 30	387-0076-2878
3,5 / 89-90	107	5,5	0,9	595,0	2,600	13,5 30	387-0090-2878
4 / 100-102	120	4,0	0,9	799,0	3,300	13,5 30	387-0102-2878
5 / 125-127	147	3,0	0,9	1036,5	4,200	13,5 30	387-0127-2878
6 / 150-152	175	3,0	0,9	1324,0	6,400	13,5 20	387-0152-2878

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

Accessories



CLAMP 211

NORPLAST[®] PVC 379 GREEN SUPERELASTIC





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

-25°C to 60°C

Design, Material

- NORPLAST® full plastic hose
- 1. hard plastic spiral integrated in wall; spiral: rigid PVC

PVC hose, heavy, flexible at low temp. (down to -25°C)

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

Delivery variants

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

I.D.	O.D.	Over- pressure	Under- pressure	Bending Radius	Weight	Dimensions in Stock	Further Production Lengths	Order No.
in / mm	mm	bar	bar	mm	kg/m	m	m	
				Standard Version	l			
3/4 / 19	24	5,000	0,600	96,49	0,25	-	25 50	379-0019-0000
- / 20	25	5,000	0,600	101,0	0,260	25 50	-	379-0020-0000
1 / 25	30	5,000	0,600	123,4	0,320	25 50	-	379-0025-0000
- / 30	36	4,500	0,600	147,5	0,370	25 50	-	379-0030-0000
1,25 / 32	38	4,000	0,600	157,1	0,450	25 50	-	379-0032-0000
1,5 / 38	44	4,000	0,600	184,0	0,490	25 50	-	379-0038-0000
- / 40	46	3,000	0,500	193,0	0,630	25 50	-	379-0040-0000
2 / 50-51	58	3,000	0,500	242,4	0,890	25 50	-	379-0050-0000
			smaller bending ra	adius , colour: tran	sparent, spiral: gre	ey .		

smaller bending radius , colour: transparent, spiral: grey										
- / 30	36	4,000	0,600	125	0,340	25 50	-	379-0030-4726		
1,25 / 32	38	4,000	0,600	130	0,36	25 50	-	379-0032-4726		

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

Accessories



CLAMP 211







- 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 dutyvery high pressure, vacuum and compression
- resistance
- good resistance to alkalis and acids
- good resistance to chemicalsvery good low temperature flexibility
- very good low temperature liexibility



- grounding wire for discharging of electrostatic charging
- permanently antistatic wall: in accordance with ISO 8031 electrical and surface resistance <10⁹ Ω and in accordance with TRGS 727 <2,5*10⁸ Ω
- in accordance with ATEX 2014/34/EU (1999/92/EC) and German TRGS 727: pneumatic transport of flammable dusts and bulk
- matic transport of narmable docts and bolk 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

• -25°C to 60°C

Design, Material

- NORPLAST® full plastic hose
- 1. outer hard plastic spiral; spiral: rigid PVC

Antistatic PVC hose, super-heavy, flexible at low temp., grounding wire (down to -25°C)

- 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
- grey and blue partially Coloured (standard)
- special colours: coloured spiral, full coloured
- · customer-specific branding

I.D.	O.D.	Over- pressure	Under- pressure	Bending Radius	Weight	Dimensions in Stock	Production Lengths	Order No.
in / mm	mm	bar	bar	mm	kg/m	m	m	
1 / 25	33	6,000	0,900	72,5	0,410	-	25 50	389-0025-2878
- / 30	38	6,000	0,900	90,0	0,550	-	25 50	389-0030-2878
1,25 / 32	40	6,000	0,900	94,0	0,600	-	25 50	389-0032-2878
1,36 / 35	44	5,000	0,900	102,5	0,630	-	25 50	389-0035-2878
1,5 / 38	47	5,000	0,900	111,0	0,700	-	25 50	389-0038-2878
- / 40	49	5,000	0,900	115,0	0,730	-	25 50	389-0040-2878
2 / 50-51	61	4,000	0,900	144,5	1,000	-	25 50	389-0051-2878
2,36 / 60	70	4,000	0,900	175,0	1,250	-	25 50	389-0060-2878
2,5 / 63-65	74	4,000	0,900	188,5	1,390	-	25 50	389-0063-2878
- / 70	81	3,000	0,900	195,0	1,600	-	25 50	389-0070-2878
3 / 75-76	87	3,000	0,900	222,0	1,700	25 50	-	389-0076-2878
- / 80	93	2,500	0,900	235,0	1,850	-	25 50	389-0080-2878
3,5 / 89-90	103	2,500	0,900	270,0	2,150	10 30	-	389-0090-2878
4 / 100-102	116	2,500	0,850	294,0	2,700	10 30	-	389-0102-2878
- / 110	124	2,000	0,850	325,0	3,000	-	30	389-0110-2878
4,72 / 120	135	2,000	0,850	350,0	3,350	-	30	389-0120-2878
5 / 125-127	142	2,000	0,850	366,5	3,600	-	10 30	389-0127-2878
6 / 150-152	170	2,000	0,800	449,0	5,000	-	10 20	389-0152-2878

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



Accessories



CLAMP 211



CONNECT 270-271





- hose/ ducting for liquids and for powder, bulk material, granulate and for gases
- suction vehicle: sewer cleaning, sewage cleaningvacuum truck, suction vehicle, dry suction truck:
- industrial cleaning, furnace cleaningairport, airplane, rail vehicle, train, railway, boat,
- ship/vessel, yacht: toilet discharging/ disposal
 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 flexibilityconforms to RoHS guideline

Temperature Range

• -40°C to 60°C

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

Design, Material

- NORPLAST® full plastic hose
- 1. hard plastic spiral integrated in 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
- grey (standard)
- special colours: coloured spiral, full coloured
- customer-specific branding

I.D.	O.D.	Over- pressure	Under- pressure	Bending Radius	Weight	Dimensions in Stock	Further Production Lengths	Order No.
in / mm	mm	bar	bar	mm	kg/m	m	m	
1 / 25	33	4,000	0,800	72,5	0,410	-	25 50	389-0025-0000
- / 30	38	6,000	0,800	90,0	0,550		25 50	389-0030-0000
1,25 / 32	40	6,000	0,800	94,0	0,600		25 50	389-0032-0000
1,36 / 35	44	5,000	0,900	102,5	0,630		25 50	389-0035-0000
1,5 / 38	47	5,000	0,900	111,0	0,700		25 50	389-0038-0000
- / 40	49	5,000	0,800	115,0	0,730		25 50	389-0040-0000
2 / 50-51	61	4,000	0,700	144,5	1,000		25 50	389-0051-0000
2,36 / 60	70	4,000	0,700	175,0	1,250		25 50	389-0060-0000
2,5 / 63-65	74	2,100	0,900	188,5	1,390		25 50	389-0063-0000
- / 70	81	3,000	0,700	195,0	1,600		25 50	389-0070-0000
3 / 75-76	87	1,900	0,700	222,0	1,700	25 50	-	389-0076-0000
- / 80	93	1,800	0,700	235,0	1,850		25 50	389-0080-0000
3,5 / 89-90	103	2,500	0,900	270,0	2,150	10 30	-	389-0090-0000
4 / 100-102	116	1,500	0,850	294,0	2,700	10 30	-	389-0102-0000
- / 110	124	2,000	0,600	325,0	3,000		30	389-0110-0000
4,72 / 120	135	2,000	0,850	350,0	3,350		30	389-0120-0000
5 / 125-127	142	2,000	0,850	366,5	3,600		10 30	389-0127-0000
6 / 150-152	170	2,000	0,800	449,0	5,000		10 20	389-0152-0000

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



Accessories



CLAMP 211



CONNECT 270-271





NORRES Schlauchtechnik GmbH

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

NORRES France SARL

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

NORRES Polska Sp. z o.o.

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

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

上海浦东新区上丰路955号4幢一层西首

West of Floor 1, Building 4, No. 955, Shang Feng Rd., Pudong, 201201 Shanghai P.R. CHINA Phone +86 21 50308958 E-Mail info@norres.cn www.norres.cn www.sh-norres.com

NORRES UK LTD

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

NORRES North America Inc.

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

NORRES Czech s.r.o

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

台灣諾銳有限公司

桃園市蘆竹區經國路892號5樓

5F., No. 892, Jingguo Rd., Luzhu Dist. Taoyuan City 33858 TAIWAN (R.O.C.) Phone +886 3 356 0696 E-Mail info@norres.tw www.norres.tw





