



# NORRES INDUSTRIAL HOSES FUME AND DUST EXTRACTION



Extraction unit, dedusting system,  
filter system, oil mist extraction

Recommended by NORRES customers:

PROTAPE® PUR 301 AS  
PROTAPE® PUR 330 AS  
AIRDUC® PUR 350 AS

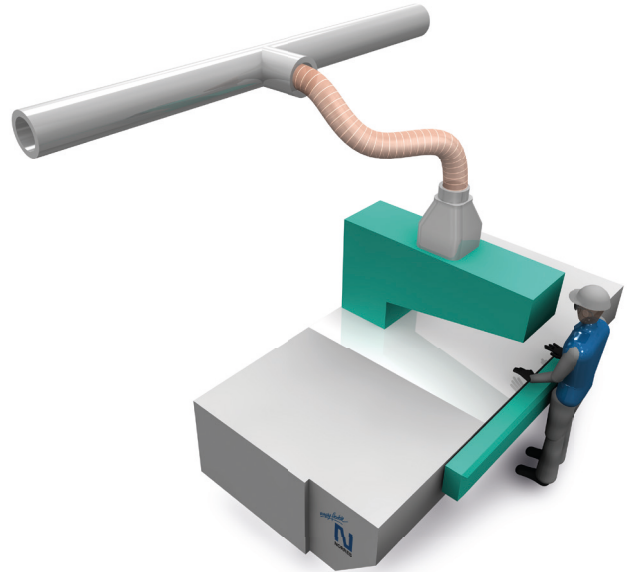
Proven Alternatives:

PROTAPE® PUR 330 AS BLACK  
AIRDUC® PUR 350 AS BLACK  
AIRDUC® PUR 351 FOOD  
PROTAPE® PVC 310  
AIRDUC® PVC 341



Galvanic extraction

PROTAPE® PUR 301 AS  
PROTAPE® PUR 330 AS  
PROTAPE® PVC 310  
AIRDUC® PVC 341  
AIRDUC® PVC 345



Chemical industry: Chemical vapours,  
vapour return hose at loading arm, paint  
steam, spray mist extraction

Recommended by NORRES customers:

PROTAPE® PE 322 EC

Proven Alternatives:

PROTAPE® PUR 301 AS  
PROTAPE® PUR 330 AS  
AIRDUC® PUR 350 AS  
AIRDUC® PE 362 EC  
CP PE 457  
CP PE 457 EC  
CP HYP 450  
CP PTFE/ HYP-INOX 472 EC  
CP VITON® 459 EC  
CP PTFE-INOX 475 FOOD  
CP PTFE-INOX 475 EC  
CP PTFE/HYP-INOX 472  
CP PTFE/GLASS-INOX 471  
CP PTFE/GLASS-INOX 471 EC  
CP Kapton® 476

Extraction arm

Recommended by NORRES customers:

PROTAPE® PVC 371  
PROTAPE® PVC 371 HT

Proven Alternatives:

PROTAPE® PUR 330 AS  
PROTAPE® PUR-INOX 330 FOOD-AS  
PROTAPE® PE 322 EC  
CP PE 457 EC  
PROTAPE® PUR 370  
CP PVC 465  
CP PVC 466 HT  
CP HiTex 467 WELDING  
CP PTFE-INOX 475 FOOD



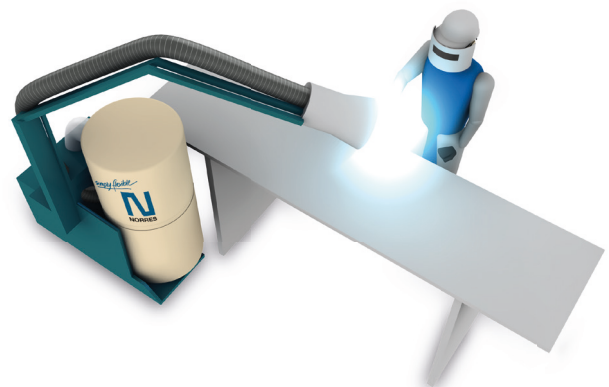
Welding fume extraction

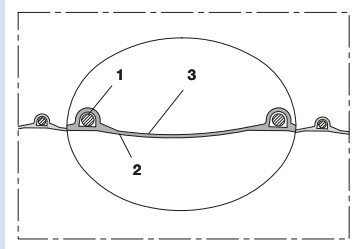
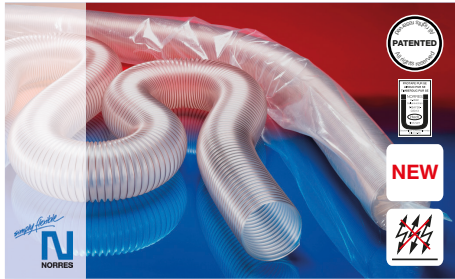
Recommended by NORRES customers:

PROTAPE® PVC 371 HT  
CP HiTex 467 WELDING

Proven Alternatives:

PROTAPE® PUR 301 AS  
PROTAPE® PUR 330 AS  
PROTAPE® PUR 370  
PROTAPE® PVC 371  
CP PVC 465  
CP PVC 466 HT





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](http://www.norres.com). NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only.





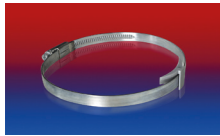
I.D.	O.D.	Pressure DIN 26057 (50% Elongation) psi	Vacuum DIN 26057 (axially fixed) inHG	Bending Radius in	Weight lbs./ft	Stock length ft	Further production lengths ft	Order No.
in / mm	in							
- / 250	10.20	1.45 (4.15)	0.59 (1.92)	5.35	0.860	-	25	301-0250-0000
10 / 254	10.35	1.40 (4.05)	0.59 (1.77)	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



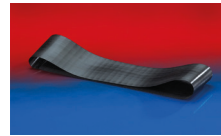
CLAMP 210 BRIDGE CLAMP



CLAMP 217



CLAMP 213



CONNECT 228



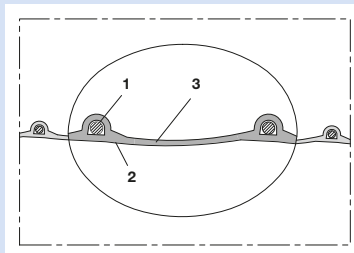
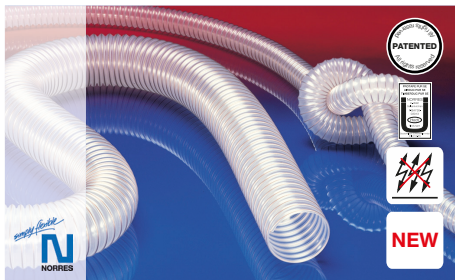
CONNECT 223



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](http://www.norres.com). NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only.





Antistatic polyurethane hose, light 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

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



I.D.	O.D.	Pressure DIN 26057 (50% Elongation) psi	Vacuum DIN 26057 (axially fixed) inHG	Bending Radius	Weight	Stock length	Further production lengths	Order No.
in / mm	in			in	lbs./ft	ft	ft	
7 / 178-180	7.40	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

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## Accessories



CLAMP 212



CLAMP 210 BRIDGE  
CLAMP



CLAMP 217



CLAMP 213



CONNECT 228

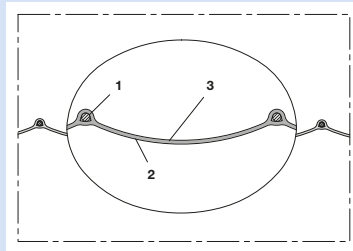
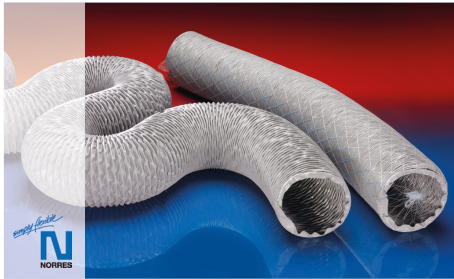


CONNECT 223



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](http://www.norres.com). NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only.



PVC ducting, (to +230°F)

**Applications**

- flexible hose/ ducting for gases
- welding fume extraction
- extraction arm
- animal stall, animal shed: barn ventilation
- construction industry: tunnel ventilation
- bus, utility vehicle, caravan/ trailer, mobile home/ camper/ RV, boat, ship/ vessel/ marine, yacht: ventilation, heating
- asbestos removal
- construction drying
- tent heating, airport gangway heating, heaters for construction sites
- clean room ventilation, semiconductor production machine

- heating system/ heater: fresh air supply

**Properties**

- fabric reinforced
- super-light weight
- highly flexible + compressible 6:1
- good resistance to alkalis and acids
- good resistance to chemicals
- flame-retardant wall according to: NF P 92-503 M2
- conforms to RoHS guideline

**Temperature range**

- 15°F to 175°F
- short time to 230°F

**Design, material**

PROTAPE® tape hose

- spring steel wire integrated in the wall
- fabric-reinforced tape; wall: PVC coated fabric
- wall thickness 0.001 inch approximate

**Delivery variants**

- further diameters and lengths available on request
- grey (standard), black, white
- customer-specific branding
- compressed packed in poly bag (low transportation cost / risk, minimum storage size)

I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	
<b>Color gray</b>								
- / 40	1.69	4.35 (-)	5.02 (-)	0.91	0.065	-	25 50	371-0040-0000
2 / 50-51	2.13	3.50 (-)	4.28 (-)	1.12	0.080	25 50	-	371-0051-0000
2.36 / 60	2.50	2.90 (-)	3.25 (-)	1.30	0.095	-	25 50	371-0060-0000
3 / 75-76	3.11	2.30 (-)	2.36 (-)	1.61	0.120	25 50	-	371-0076-0000
- / 80	3.27	2.20 (-)	2.36 (-)	1.69	0.130	-	25 50	371-0080-0000
3.5 / 89-90	3.66	1.95 (-)	2.07 (-)	1.89	0.135	25 50	-	371-0090-0000
4 / 100-102	4.13	1.75 (-)	1.48 (-)	2.13	0.160	25 50	-	371-0102-0000
- / 110	4.45	1.60 (-)	1.33 (-)	2.28	0.180	-	25 50	371-0110-0000
5 / 125-127	5.12	1.40 (-)	1.03 (-)	2.62	0.215	25 50	-	371-0127-0000
5.5 / 140	5.63	1.25 (-)	1.03 (-)	2.87	0.235	25 50	-	371-0140-0000
6 / 150-152	6.10	1.15 (-)	1.03 (-)	3.11	0.250	25 50	-	371-0152-0000
6.3 / 160	6.42	1.10 (-)	0.59 (-)	3.27	0.295	-	25 50	371-0160-0000
7 / 178-180	7.20	0.95 (-)	0.59 (-)	3.66	0.365	25 50	-	371-0180-0000
8 / 200-203	8.11	0.85 (-)	0.59 (-)	4.11	0.405	25 50	-	371-0203-0000
10 / 254	10.16	0.65 (-)	0.44 (-)	5.16	0.530	25 50	-	371-0254-0000
12 / 305	12.17	0.60 (-)	0.30 (-)	6.16	0.640	25 50	-	371-0305-0000
14 / 356	14.17	0.50 (-)	0.30 (-)	7.17	0.745	25	-	371-0356-0000
16 / 405-406	16.14	0.45 (-)	0.15 (-)	8.15	0.860	25	-	371-0406-0000
20 / 508	20.24	0.35 (-)	0.15 (-)	10.24	1.050	25	-	371-0508-0000
<b>Color black</b>								
1.5 / 38	1.61	4.55 (-)	5.17 (-)	7/8	0.065	-	25 50	371-0038-0001
- / 40	1.69	4.35 (-)	5.02 (-)	0.91	0.065	-	25 50	371-0040-0001
2 / 50-51	2.13	3.50 (-)	4.28 (-)	1.12	0.080	-	25 50	371-0051-0001
2.36 / 60	2.50	2.90 (-)	3.25 (-)	1.30	0.095	-	25 50	371-0060-0001
2.5 / 63-65	2.68	2.70 (-)	3.10 (-)	1.40	0.105	-	25 50	371-0065-0001

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





I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	
3 / 75-76	3.11	2.30 (-)	2.36 (-)	1.61	0.120	-	25 50	371-0076-0001
- / 80	3.27	2.20 (-)	2.36 (-)	1.69	0.130	-	25 50	371-0080-0001
3.5 / 89-90	3.66	1.95 (-)	2.07 (-)	1.89	0.135	-	25 50	371-0090-0001
4 / 100-102	4.13	1.75 (-)	1.48 (-)	2.13	0.160	-	25 50	371-0102-0001
- / 110	4.45	1.60 (-)	1.33 (-)	2.28	0.180	-	25 50	371-0110-0001
4.5 / 114-115	4.65	1.50 (-)	1.18 (-)	2.38	0.190	-	25 50	371-0115-0001
5 / 125-127	5.12	1.40 (-)	1.03 (-)	2.62	0.215	-	25 50	371-0127-0001
5.5 / 140	5.63	1.25 (-)	1.03 (-)	2.87	0.235	-	25 50	371-0140-0001
6 / 150-152	6.10	1.15 (-)	1.03 (-)	3.11	0.250	-	25 50	371-0152-0001
6.3 / 160	6.42	1.10 (-)	0.59 (-)	3.27	0.295	-	25 50	371-0160-0001
6.5 / 165	6.61	1.10 (-)	0.59 (-)	3.37	0.310	-	25 50	371-0165-0001
7 / 178-180	7.20	0.95 (-)	0.59 (-)	3.66	0.365	-	25 50	371-0180-0001
8 / 200-203	8.11	0.85 (-)	0.59 (-)	4.11	0.405	-	25 50	371-0203-0001
- / 250	10.00	0.75 (-)	0.44 (-)	5.08	0.520	-	25 50	371-0250-0001
10 / 254	10.16	0.65 (-)	0.44 (-)	5.16	0.530	-	25 50	371-0254-0001
- / 300	11.97	0.60 (-)	0.30 (-)	6.06	0.630	-	25 50	371-0300-0001
12 / 305	12.17	0.60 (-)	0.30 (-)	6.16	0.640	-	25 50	371-0305-0001
- / 350	13.94	0.50 (-)	0.30 (-)	7.05	0.730	-	25	371-0350-0001
14 / 356	14.17	0.50 (-)	0.30 (-)	7.17	0.745	-	25	371-0356-0001
- / 400	15.91	0.45 (-)	0.30 (-)	8.03	0.845	-	25	371-0400-0001
16 / 405-406	16.14	0.45 (-)	0.15 (-)	8.15	0.860	-	25	371-0406-0001
- / 500	19.92	0.35 (-)	0.15 (-)	10.08	1.035	-	25	371-0500-0001
20 / 508	20.24	0.35 (-)	0.15 (-)	10.24	1.050	-	25	371-0508-0001

Color white								
1.5 / 38	1.61	4.55 (-)	5.17 (-)	7/8	0.065	-	25 50	371-0038-0010
- / 40	1.69	4.35 (-)	5.02 (-)	0.91	0.065	-	25 50	371-0040-0010
2 / 50-51	2.13	3.50 (-)	4.28 (-)	1.12	0.080	-	25 50	371-0051-0010
2.36 / 60	2.50	2.90 (-)	3.25 (-)	1.30	0.095	-	25 50	371-0060-0010
2.5 / 63-65	2.68	2.70 (-)	3.10 (-)	1.40	0.105	-	25 50	371-0065-0010
3 / 75-76	3.11	2.30 (-)	2.36 (-)	1.61	0.120	-	25 50	371-0076-0010
- / 80	3.27	2.20 (-)	2.36 (-)	1.69	0.130	-	25 50	371-0080-0010
3.5 / 89-90	3.66	1.95 (-)	2.07 (-)	1.89	0.135	-	25 50	371-0090-0010
4 / 100-102	4.13	1.75 (-)	1.48 (-)	2.13	0.160	-	25 50	371-0102-0010
- / 110	4.45	1.60 (-)	1.33 (-)	2.28	0.180	-	25 50	371-0110-0010
4.5 / 114-115	4.65	1.50 (-)	1.18 (-)	2.38	0.190	-	25 50	371-0115-0010
5 / 125-127	5.12	1.40 (-)	1.03 (-)	2.62	0.215	-	25 50	371-0127-0010
5.5 / 140	5.63	1.25 (-)	1.03 (-)	2.87	0.235	-	25 50	371-0140-0010
6 / 150-152	6.10	1.15 (-)	1.03 (-)	3.11	0.250	-	25 50	371-0152-0010
6.3 / 160	6.42	1.10 (-)	0.59 (-)	3.27	0.295	-	25 50	371-0160-0010
6.5 / 165	6.61	1.10 (-)	0.59 (-)	3.37	0.310	-	25 50	371-0165-0010
7 / 178-180	7.20	0.95 (-)	0.59 (-)	3.66	0.365	-	25 50	371-0180-0010
8 / 200-203	8.11	0.85 (-)	0.59 (-)	4.11	0.405	-	25 50	371-0203-0010
- / 250	10.00	0.75 (-)	0.44 (-)	5.08	0.520	-	25 50	371-0250-0010
10 / 254	10.16	0.65 (-)	0.44 (-)	5.16	0.530	-	25 50	371-0254-0010
- / 300	11.97	0.60 (-)	0.30 (-)	6.06	0.630	-	25 50	371-0300-0010
12 / 305	12.17	0.60 (-)	0.30 (-)	6.16	0.640	-	25 50	371-0305-0010
- / 350	13.94	0.50 (-)	0.30 (-)	7.05	0.730	-	25	371-0350-0010
14 / 356	14.17	0.50 (-)	0.30 (-)	7.17	0.745	-	25	371-0356-0010
- / 400	15.91	0.45 (-)	0.30 (-)	8.03	0.845	-	25	371-0400-0010

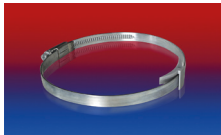
Positive and negative pressure ratings are the recommended maximum operating values. Products can be manufactured to meet higher operating values upon request. The bend radius is calculated from the center of the hose in an arched position. Additional information at [www.norres.com](http://www.norres.com).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



I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	
16 / 405-406	16.14	0.45 (-)	0.15 (-)	8.15	0.860	-	25	371-0406-0010
- / 500	19.92	0.35 (-)	0.15 (-)	10.08	1.035	-	25	371-0500-0010
20 / 508	20.24	0.35 (-)	0.15 (-)	10.24	1.050	-	25	371-0508-0010

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

### Accessories



CLAMP 210 BRIDGE CLAMP



CLAMP 208



CONNECT 228

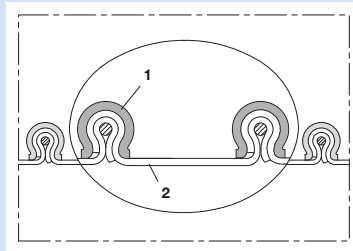


CONNECT 223



CONNECT 270-271

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



Clamp profile hose (clip hose) for flying sparks or welding sparks, (to +540°F)

### Applications

- flexible hose/ ducting for gases and for dust, powder, fibers
- welding fume extraction
- extraction arm

### Properties

- very good resistance to flying sparks and welding sparks
- fabric reinforced
- abrasion protection via external clamp profile
- secure clamping of the wall within the clamp profile

- highly flexible + compressible
- extremely heat resistant
- flame-retardant
- conforms to RoHS guideline

### Temperature range

- -95°F to 500°F
- short time to 540°F

### Design, material

CP construction

1. clamp profile supporting spiral: galvanized steel
2. fabric-reinforced tape; wall: special-coated high-

temperature fabric

### Delivery variants

- further diameters and lengths available on request
- black (standard)
- stainless steel (INOX) clamp profile
- double-layer

I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Production Length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	ft	
2 / 50-51	2.44	12.35	9.45	0.71	0.455	25	-	-	467-0050-0000
- / 55	2.64	11.90	7.68	3/4	0.495	25	-	-	467-0055-0000
2.36 / 60	2.83	10.45	6.50	0.79	0.540	-	25	-	467-0060-0000
2.5 / 63-65	3.03	9.85	5.91	0.85	0.580	25	-	-	467-0065-0000
- / 70	3.20	9.45	5.02	7/8	0.620	25	-	-	467-0070-0000
3 / 75-76	3.43	9.00	4.28	0.93	0.660	25	-	-	467-0075-0000
- / 80	3.62	8.70	3.54	0.94	0.700	-	25	-	467-0080-0000
3.5 / 89-90	4.00	8.00	3.10	1.02	0.780	25	-	-	467-0090-0000
4 / 100-102	4.41	7.55	2.66	1.10	0.640	25	-	-	467-0100-0000
- / 110	4.80	6.95	2.07	1 1/8	0.700	-	12.5 25	-	467-0110-0000
4.5 / 114-115	5.00	5.80	1.92	1.24	0.730	12.5 25	-	-	467-0115-0000
4.72 / 120	5.20	5.10	1.77	1.25	0.760	-	12.5 25	-	467-0120-0000
5 / 125-127	5.39	4.65	1.62	1.32	0.795	12.5 25	-	-	467-0125-0000
- / 130	5.59	4.05	1.48	1.34	0.820	12.5 25	-	-	467-0130-0000
5.5 / 140	6.00	3.65	1.33	1.42	0.880	12.5 25	-	-	467-0140-0000
6 / 150-152	6.38	3.20	1.18	1.50	0.640	12.5 25	-	-	467-0150-0000
6.3 / 160	6.77	3.05	1.03	1.57	0.680	-	12.5 25	-	467-0160-0000
6.5 / 165	6.97	2.95	1.03	1.61	0.700	12.5 25	-	-	467-0165-0000
- / 170	7.17	2.90	0.89	1.65	0.720	-	12.5 25	-	467-0170-0000
- / 175	7.36	2.75	0.74	1.71	0.740	12.5 25	-	-	467-0175-0000
7 / 178-180	7.56	2.60	0.65	1.73	0.760	12.5 25	-	-	467-0180-0000
8 / 200-203	8.35	2.20	0.59	1.89	0.840	12.5 25	-	-	467-0200-0000
- / 215	8.94	1.90	0.53	2.03	0.900	12.5 25	-	-	467-0215-0000
- / 225	9.33	1.60	0.47	2.11	0.940	-	12.5 25	-	467-0225-0000
9 / 228-229	9.45	1.60	0.44	2.13	0.955	12.5 25	-	-	467-0228-0000
- / 250	10.31	1.45	0.35	2.28	1.050	-	12.5 25	-	467-0250-0000
10 / 254	10.47	1.40	0.30	2.32	1.065	12.5 25	-	-	467-0254-0000
- / 275	11.30	1.15	0.30	2.50	1.150	12.5 25	-	-	467-0275-0000
11 / 280	11.50	1.15	0.30	2.54	1.170	12.5 25	-	-	467-0280-0000
- / 300	12.28	1.00	0.27	2.68	1.250	-	12.5 25	-	467-0300-0000

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





I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Production Length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	ft	
12 / 305	12.48	1.00	0.30	2.72	1,270	<b>12.5 25</b>	-	-	467-0305-0000
- / 315	12.87	0.90	0.24	2.78	1,310	<b>12.5 25</b>	-	-	467-0315-0000
- / 325	13.27	0.85	0.21	2.89	1,365	<b>12.5 25</b>	-	-	467-0325-0000
13 / 330	13.46	0.85	0.21	2.93	1,380	<b>12.5 25</b>	-	-	467-0330-0000
- / 350	14.25	0.80	0.18	3.07	1,450	-	12.5 25	-	467-0350-0000
14 / 356	14.49	0.80	0.15	3.11	1,470	<b>12.5 25</b>	-	-	467-0356-0000
- / 375	15.24	0.75	0.15	3.25	1,520	<b>12.5 25</b>	-	-	467-0375-0000
- / 400	16.22	0.70	0.15	3.46	1,660	-	12.5 25	-	467-0400-0000
16 / 405-406	16.46	0.70	0.15	3.50	1,685	<b>12.5 25</b>	-	-	467-0406-0000
- / 450	18.19	0.65	0.12	3.86	1,860	-	12.5 25	-	467-0450-0000
18 / 457	18.46	0.65	0.12	3.92	1,890	<b>12.5 25</b>	-	-	467-0457-0000
- / 500	20.16	0.60	0.09	4.25	2,065	-	12.5 25	-	467-0500-0000
20 / 508	20.47	0.60	0.09	4.31	2,095	<b>12.5 25</b>	-	-	467-0508-0000
- / 600	24.09	0.55	0.06	5.04	2,475	-	12.5 25	-	467-0600-0000
24 / 610	24.49	0.50	0.06	5.12	2,515	<b>12.5 25</b>	-	-	467-0610-0000
- / 700	28.00	0.45	0.06	5.83	2,885	-	12.5 25	-	467-0700-0000
28 / 712	28.50	0.45	0.06	5.93	2,935	<b>12.5 25</b>	-	-	467-0712-0000
- / 750	30.00	0.35	0.03	6.22	3,090	<b>12.5 25</b>	-	-	467-0750-0000
- / 800	31.97	0.30	0.03	6.61	3,295	-	12.5 25	-	467-0800-0000
32 / 813-815	32.56	0.30	0.03	6.73	3,355	<b>12.5 25</b>	-	-	467-0815-0000
- / 900	35.91	0.20	0.03	7.40	3,695	-	12.5 25	-	467-0900-0000
36 / 915	36.50	0.20	0.03	7.52	3,755	<b>12.5 25</b>	-	-	467-0915-0000
- / 1000	39.84	0.20	0.03	8.19	4,105	-	12.5 25	-	467-1000-0000
40 / 1016	40.47	0.20	0.03	8.31	4,175	<b>12.5 25</b>	-	-	467-1016-0000

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Accessories



CLAMP 212



CLAMP 217



CLAMP 213

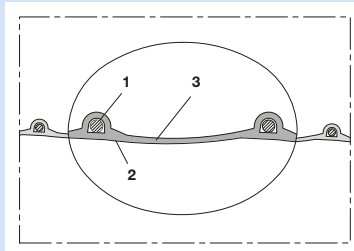


CONNECT 228



CONNECT 270-271

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



Antistatic polyurethane hose, light weight, black

## Applications

- flexible hose/ ducting for gases and for abrasive dust, powder, fibers
- extraction unit, dust collection systems, filter system, oil mist extraction
- extraction arm
- 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
- good resistance to oil, gasoline, and chemicals
- very good low temperature flexibility
- permanently antistatic wall: in accordance with ISO 8031 electrical and surface resistance  $<10^9 \Omega$
- in accordance with ATEX 2014/34/EU (1999/92/EC) and German TRGS 727: aspiration of combustible dust (zone 22 inside), for conveying of non-flammable liquids, for use in zone 1 and 2 (gases)
- conforms to RoHS guideline

## 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
- black (standard)
- special colors: partially colored, completely colored
- customer-specific branding

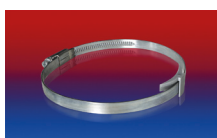
I.D. in / mm	O.D. in	Pressure DIN 26057 (50% Elongation) psi	Vacuum DIN 26057 (axially fixed) inHG	Bending Radius in	Weight lbs./ft	Stock length ft	Order No.
2 / 50-51	2.28	11.90 (30.75)	6.50 (25.69)	1.30	0.249	50	330-0050-3030
2.5 / 63-65	2.87	9.20 (23.70)	4.87 (15.36)	1.59	0.316	50	330-0065-3030
3 / 75-76	3.27	8.00 (20.60)	4.28 (11.66)	1.79	0.363	50	330-0075-3030
4 / 100-102	4.25	6.00 (15.50)	2.36 (9.15)	2.28	0.457	50	330-0100-3030
5 / 125-127	5.24	4.85 (12.40)	1.92 (5.91)	2.78	0.564	50	330-0125-3030
6 / 150-152	6.22	4.00 (10.35)	1.62 (4.13)	3.27	0.672	50	330-0150-3030
8 / 200-203	8.19	3.05 (7.75)	0.89 (3.25)	4.25	0.900	50	330-0200-3030
10 / 254	10.31	2.40 (6.10)	0.74 (1.92)	5.31	1.122	50	330-0254-3030
12 / 305	12.36	1.95 (5.10)	0.59 (1.48)	6.36	1.465	50	330-0305-3030

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## Accessories



CLAMP 212



CLAMP 210 BRIDGE CLAMP



CLAMP 217



CLAMP 213



CONNECT 228



CONNECT 223

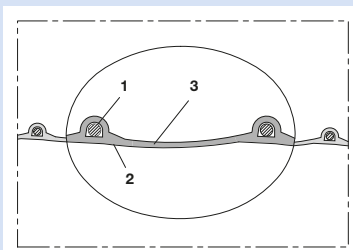
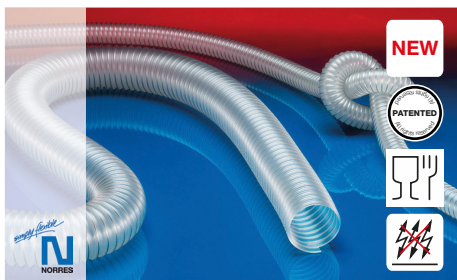
Positive and negative pressure ratings are the recommended maximum operating values. Products can be manufactured to meet higher operating values upon request. The bend radius is calculated from the center of the hose in an arched position. Additional information at [www.norres.com](http://www.norres.com).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



CONNECT 270-271

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





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

**Applications**

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

**Properties**

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

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

- Approval acc. to EU-Directive 10/2011 (food simulant E) and EC 1935/2004
- odorless and tasteless
- microbe and hydrolysis resistant
- good resistance to oil, gasoline, and chemicals
- very good low temperature flexibility
- permanently antistatic wall: in accordance with ISO 8031 electrical and surface resistance <math><10^9 \Omega</math> and in accordance with TRGS 727 <math><2,5 \* 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)
- manufacturing process acc. GMP EC 2023/2006

- conforms to RoHS guideline

**Temperature range**

- 40°F to 195°F

**Design, material**

- patented PROTAPE® tape hose
- spring steel wire integrated in the wall; spiral: stainless steel wire (INOX)
  - wall: permanently antistatic premium ether-polyurethane (Pre-PUR®)
  - wall thickness 0.025 inch approximate

**Delivery variants**

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

I.D.	O.D.	Pressure DIN 26057 (50% Elongation)	Vacuum DIN 26057 (axially fixed)	Bending Radius	Weight	Stock length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	
1.5 / 38	1.75	15.60 (40.25)	10.48 (22.74)	1.02	0.148	25	-	330-0038-1018
- / 40	1.85	14.80 (38.30)	9.89 (20.52)	1.06	0.161	-	25	330-0040-1018
2 / 50-51	2.28	11.90 (30.75)	6.50 (25.69)	1.30	0.255	25	-	330-0050-1018
2.36 / 60	2.68	9.95 (25.65)	5.32 (17.87)	1.50	0.296	-	25	330-0060-1018
2.5 / 63-65	2.87	9.20 (23.70)	4.87 (15.36)	1.59	0.316	25	-	330-0065-1018
- / 70	3.07	8.55 (22.05)	4.58 (13.29)	1.69	0.343	-	25	330-0070-1018
3 / 75-76	3.27	8.00 (20.60)	4.28 (11.66)	1.79	0.370	25	-	330-0075-1018
- / 80	3.46	7.45 (19.30)	3.99 (10.34)	1.89	0.390	-	25	330-0080-1018
4 / 100-102	4.25	6.00 (15.50)	2.36 (9.15)	2.28	0.464	25	-	330-0100-1018
5 / 125-127	5.24	4.85 (12.40)	1.92 (5.91)	2.78	0.571	25	-	330-0125-1018
6 / 150-152	6.22	4.00 (10.35)	1.62 (4.13)	3.27	0.679	25	-	330-0150-1018
6.3 / 160	6.61	3.75 (9.70)	1.48 (3.69)	3.46	0.719	-	25	330-0160-1018
7 / 178-180	7.40	3.35 (8.65)	1.33 (2.95)	3.86	0.806	25	-	330-0180-1018
8 / 200-203	8.19	3.05 (7.75)	0.89 (3.25)	4.25	0.907	25	-	330-0200-1018
- / 250	10.16	2.40 (6.25)	0.74 (1.92)	5.24	1.122	-	25	330-0250-1018
- / 300	12.13	2.05 (5.20)	0.59 (1.48)	6.22	1.458	-	25	330-0300-1018

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

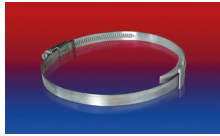
Positive and negative pressure ratings are the recommended maximum operating values. Products can be manufactured to meet higher operating values upon request. The bend radius is calculated from the center of the hose in an arched position. Additional information at [www.norres.com](http://www.norres.com).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



Accessories



CLAMP 212



CLAMP 210 BRIDGE  
CLAMP



CLAMP 217



CLAMP 213



CONNECT 228

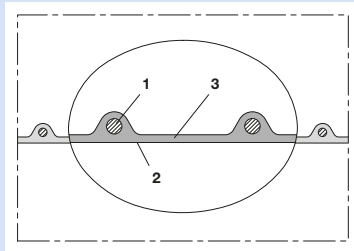
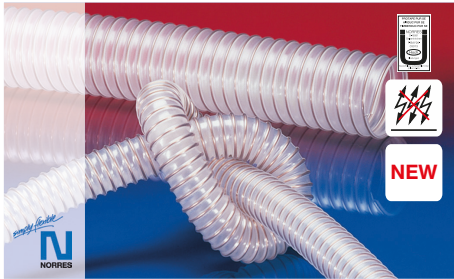


CONNECT 223



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](http://www.norres.com). NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only.



Antistatic polyurethane hose, 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 \* 10^8 \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)

- conforms to the safety regulations of the German Wood Trade Association
- according to DIN 26057 Type 2
- conforms to RoHS guideline

**Temperature range**

- 40°F to 195°F
- short time to 255°F

**Design, material**

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

**Delivery variants**

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

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

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





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

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### Accessories

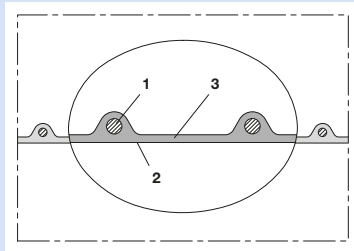
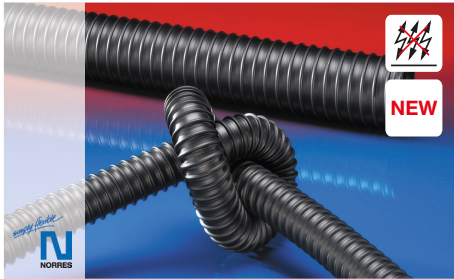


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CONNECT 270-271

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](http://www.norres.com). NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only.



Antistatic polyurethane hose, medium-heavy duty, black

### Applications

- flexible hose/ ducting for abrasive powder, bulk material, granulate and for gases
- air supply: UV dryer, IR dryer
- extraction unit, dust collection systems, filter system, oil 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

- medium-heavy duty
- highly abrasion resistant
- good resistance to oil, gasoline, and chemicals
- very good low temperature flexibility
- permanently antistatic wall: in accordance with ISO 8031 electrical and surface resistance  $<10^9 \Omega$  and in accordance with TRGS 727  $<2,5 \cdot 10^6 \Omega$
- in accordance with ATEX 2014/34/EU (1999/92/EC) and German TRGS 727: pneumatic transport of flammable dusts and bulk materials (Zone 20, 21, 22 inside), aspiration of combustible dusts (Zone 22 inside), for conveying for flammable liquids (inside zone 0, 1, 2), for conveying for non-flammable liquids, for use in zone 1 and 2 (gases), for use in zone 0 (gases)
- according to DIN 26057 Type 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
- black (standard)
- special colors: full 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	Order No.
2 / 50-51	2.24	18.15 (40.30)	11.22 (29.53)	1.50	0.270	50	350-0050-3030
2.5 / 63-65	2.76	14.05 (31.20)	8.56 (21.11)	1.83	0.350	50	350-0065-3030
3 / 75-76	3.20	12.20 (27.10)	5.17 (21.41)	2.07	0.395	50	350-0075-3030
3.5 / 89-90	3.82	10.25 (22.65)	4.28 (15.06)	2.44	0.485	50	350-0090-3030
4 / 100-102	4.21	9.20 (20.40)	3.99 (19.49)	2.68	0.540	50	350-0100-3030
5 / 125-127	5.20	7.40 (16.30)	3.25 (12.4)	3.25	0.660	50	350-0125-3030
6 / 150-152	6.18	6.15 (13.65)	2.21 (10.63)	3.86	0.940	50	350-0150-3030
7 / 178-180	7.36	5.15 (11.40)	1.77 (7.23)	4.57	1.120	50	350-0180-3030
8 / 200-203	8.15	4.65 (10.25)	1.62 (5.76)	5.04	1.250	50	350-0200-3030
10 / 254	10.28	3.65 (8.05)	1.33 (3.25)	6.30	1.580	50	350-0254-3030
12 / 305	12.28	3.05 (6.75)	1.03 (2.21)	7.50	1.890	50	350-0305-3030

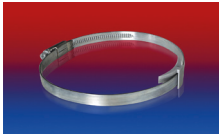
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## Accessories



### CLAMP 212

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



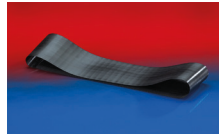
CLAMP 210 BRIDGE CLAMP



CLAMP 217



CLAMP 213



CONNECT 228



CONNECT MOULD ASSEMBLY 233



CONNECT THREAD FITTING 234



CONNECT TRI-CLAMP FITTING 245



CONNECT DAIRY FITTING 247



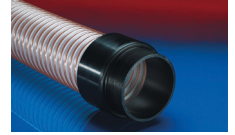
CONNECT ASEPTIC FITTING 249



CONNECT 240 + 241



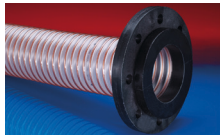
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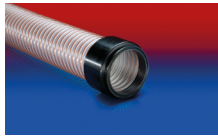
CONNECT 242



CONNECT 243



CONNECT 244



CONNECT 245



CONNECT 246

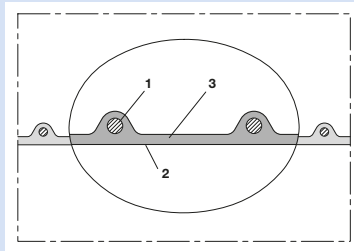
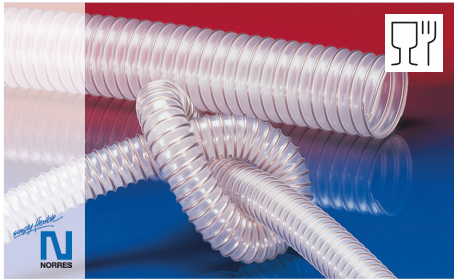


CONNECT 223



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](http://www.norres.com). NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only.



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

**Applications**

- flexible hose/ ducting for abrasive powder, bulk material, granulate and for gases
- food industry, pharmaceutical industry: food, pharmaceutical
- conveying of dry foods e.g. rice, cereals, sugar, milk powder, powders, coffee, tea, grains, flour, frozen foods
- vacuum conveying equipment, vacuum hopper, suction conveyor, dosing system
- mixer, dryer, packaging machine, bulk-bag (big bag)-charging and discharging, mill
- industrial vacuum cleaners, vacuum cleaners

**Properties**

- medium-heavy duty
- highly abrasion resistant

- Approved by an independent testing laboratory for the complete hose acc. to EU-Directive 10/2011 and EC 1935/2004 and the latest EU-Directive 2015/174, food grade polyurethane, complies with: FDA 21 CFR 177.2600 and 178.2010
- Approval acc. to EU-Directive 10/2011 (food simulants A, B, C or E and D2) and EC 1935/2004
- odorless and tasteless
- microbe and hydrolysis resistant
- good resistance to oil, gasoline, and chemicals
- very good low temperature flexibility
- flame-retardant according to: UL94-HB
- manufacturing process acc. GMP EC 2023/2006
- conforms to RoHS guideline

**Temperature range**

- 40°F to 195°F

- short time to 255°F

**Design, material**

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

**Delivery variants**

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

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

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





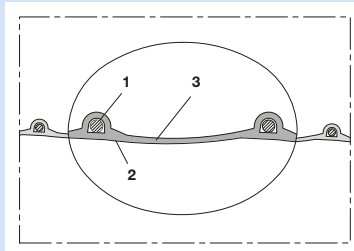
I.D.	O.D.	Pressure DIN 26057 (50% Elongation) psi	Vacuum DIN 26057 (axially fixed) inHG	Bending Radius	Weight	Stock length	Further production lengths	Order No.
in / mm	in			in	lbs./ft	ft	ft	
7 / 178-180	7.44	5.80 (12.40)	1.62 (7.23)	4.65	1.215	25 50	-	351-0180-0000
8 / 200-203	8.23	5.20 (11.15)	1.48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

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Accessories



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PVC hose, light weight

**Applications**

- flexible hose/ ducting for gases and for dust, powder, fibers
- extraction unit, dust collection systems, filter system, oil mist extraction
- galvanic extraction
- chemical industry: chemical vapors, vapor return hose at loading arm, paint steam, spray mist extraction
- X-ray machine: cable protection conduit (special type on request)
- heating hose: exterior hose as protection hose

**Properties**

- light weight

- highly flexible + compressible 3:1
- good resistance to alkalis and acids
- good resistance to chemicals
- phthalate-free
- flame-retardant according to: UL94-HB
- conforms to RoHS guideline

**Temperature range**

- 5°F to 160°F
- short time to 175°F

**Design, material**

- patented PROTAPE® tape hose
- spring steel wire integrated in the wall
  - wall: high grade soft PVC

3. wall thickness 0.025 inch approximate

**Delivery variants**

- further diameters and lengths available on request
- gray (standard)
- special colors: transparent, full colored
- customer-specific branding
- ID >= 2"/50-51 mm compressed packed in poly bag (low transportation cost / risk, minimum storage size), ID < 2"/50-51 mm not compressed, wrapped in a coil

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	
- / 30	1.46	13.50 (-)	5.91 (-)	7/8	0.160	-	25 50	310-0030-0000
1.25 / 32	1.54	12.70 (-)	5.91 (-)	0.91	0.175	-	25 50	310-0032-0000
1.5 / 38	1.75	10.75 (-)	5.46 (-)	1.02	0.200	25 50	-	310-0038-0000
- / 40	1.85	10.25 (-)	5.32 (-)	1.06	0.215	-	25 50	310-0040-0000
2 / 50-51	2.28	5.95 (-)	4.58 (-)	1.30	0.210	25 50	-	310-0050-0000
2.36 / 60	2.68	4.95 (-)	3.54 (-)	1.50	0.240	-	25 50	310-0060-0000
2.5 / 63-65	2.87	4.55 (-)	3.10 (-)	1.59	0.260	25 50	-	310-0065-0000
- / 70	3.07	4.30 (-)	2.66 (-)	1.69	0.280	-	25 50	310-0070-0000
3 / 75-76	3.27	4.00 (-)	2.51 (-)	1.79	0.300	25 50	-	310-0075-0000
- / 80	3.46	3.70 (-)	2.21 (-)	1.89	0.315	-	25 50	310-0080-0000
3.5 / 89-90	3.86	3.35 (-)	1.92 (-)	2.09	0.355	25 50	-	310-0090-0000
4 / 100-102	4.25	2.95 (-)	1.48 (-)	2.28	0.385	25 50	-	310-0100-0000
- / 110	4.65	2.70 (-)	1.33 (-)	2.50	0.415	-	25 50	310-0110-0000
4.5 / 114-115	4.84	2.60 (-)	1.33 (-)	2.58	0.435	25 50	-	310-0115-0000
4.72 / 120	5.04	2.45 (-)	1.33 (-)	2.68	0.455	-	25 50	310-0120-0000
5 / 125-127	5.24	2.40 (-)	1.03 (-)	2.78	0.475	25 50	-	310-0125-0000
- / 130	5.43	2.30 (-)	1.03 (-)	2.87	0.490	-	25 50	310-0130-0000
5.5 / 140	5.83	2.10 (-)	1.03 (-)	3.07	0.530	25 50	-	310-0140-0000
6 / 150-152	6.22	1.95 (-)	1.03 (-)	3.27	0.565	25 50	-	310-0150-0000
6.3 / 160	6.61	1.90 (-)	0.89 (-)	3.46	0.585	-	25 50	310-0160-0000
7 / 178-180	7.40	1.65 (-)	0.74 (-)	3.86	0.670	25 50	-	310-0180-0000
8 / 200-203	8.19	1.50 (-)	0.74 (-)	4.25	0.745	25	-	310-0200-0000
- / 225	9.17	1.30 (-)	0.44 (-)	4.74	0.840	-	25	310-0225-0000
- / 250	10.16	1.25 (-)	0.30 (-)	5.24	0.935	-	25	310-0250-0000
- / 300	12.17	1.00 (-)	0.30 (-)	6.26	1.310	-	25 50	310-0300-0000

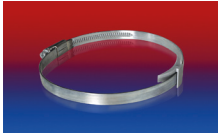
Positive and negative pressure ratings are the recommended maximum operating values. Products can be manufactured to meet higher operating values upon request. The bend radius is calculated from the center of the hose in an arched position. Additional information at [www.norres.com](http://www.norres.com).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

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Accessories



CLAMP 212



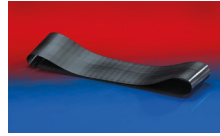
CLAMP 210 BRIDGE  
CLAMP



CLAMP 217



CLAMP 213



CONNECT 228

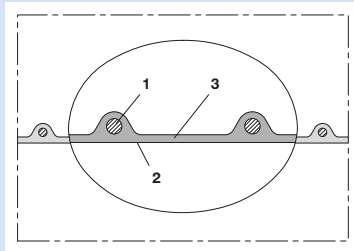
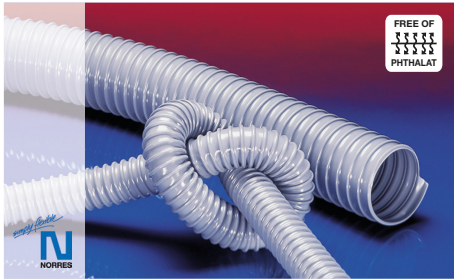


CONNECT 223



CONNECT 270-271

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PVC hose, medium-heavy duty

**Applications**

- flexible hose/ ducting for gases and for dust, powder, fibers
- extraction unit, dust collection systems, filter system, oil mist extraction
- galvanic extraction
- chemical industry: chemical vapors, vapor return hose at loading arm, paint steam, spray mist extraction
- heating hose: exterior hose as protection hose

**Properties**

- medium-heavy duty

- good resistance to alkalis and acids
- good resistance to chemicals
- phthalate-free
- flame-retardant according to: UL94-HB
- conforms to RoHS guideline

**Temperature range**

- -5°F to 160°F
- short time to 175°F

**Design, material**

AIRDUC® profile hose

1. spring steel wire firmly embedded in the wall

2. wall: high grade soft PVC
3. wall thickness 0.035 inch approx.

**Delivery variants**

- further diameters and lengths available on request
- gray (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	
- / 20	1.06	20.10	14.76	0.67	0.130	-	25 50	341-0020-0000
1 / 25	1.25	16.30	11.81	3/4	0.155	25 50	-	341-0025-0000
- / 30	1.50	13.70	8.12	0.91	0.170	-	25 50	341-0030-0000
1.25 / 32	1.57	12.90	7.68	0.94	0.180	-	25 50	341-0032-0000
1.36 / 35	1.69	11.80	6.94	1.00	0.200	-	25 50	341-0035-0000
1.5 / 38	1.81	10.95	6.50	1.06	0.215	25 50	-	341-0038-0000
- / 40	1.89	10.35	6.05	1.10	0.220	-	25 50	341-0040-0000
- / 42	1.97	9.80	5.91	1.14	0.235	-	25 50	341-0042-0000
1.75 / 44-45	2.09	9.30	5.46	1.20	0.250	-	25 50	341-0045-0000
2 / 50-51	2.28	8.35	4.87	1.30	0.275	25 50	-	341-0050-0000
- / 55	2.50	7.60	4.43	1.40	0.300	-	25 50	341-0055-0000
2.36 / 60	2.68	7.05	4.13	1.50	0.330	-	25 50	341-0060-0000
2.5 / 63-65	2.87	6.45	3.69	1.59	0.350	25 50	-	341-0065-0000
- / 70	3.11	6.00	3.54	1.73	0.365	-	25 50	341-0070-0000
3 / 75-76	3.31	5.65	3.25	1.83	0.390	25 50	-	341-0075-0000
- / 80	3.50	5.30	3.10	1.93	0.410	-	25 50	341-0080-0000
3.5 / 89-90	3.90	4.70	2.66	2.13	0.470	25 50	-	341-0090-0000
4 / 100-102	4.29	4.30	1.77	2.32	0.570	25 50	-	341-0100-0000
- / 110	4.69	3.85	1.62	2.52	0.630	-	25 50	341-0110-0000
4.5 / 114-115	4.88	3.70	1.48	2.62	0.660	25 50	-	341-0115-0000
4.72 / 120	5.08	3.55	1.48	2.72	0.685	-	25 50	341-0120-0000
5 / 125-127	5.28	3.40	1.33	2.81	0.710	25 50	-	341-0125-0000
- / 130	5.47	3.25	1.33	2.91	0.740	-	25 50	341-0130-0000
5.5 / 140	5.87	3.05	1.18	3.11	0.795	25 50	-	341-0140-0000
6 / 150-152	6.26	2.85	1.18	3.31	0.845	25 50	-	341-0150-0000
6.3 / 160	6.65	2.70	1.03	3.50	0.905	-	25 50	341-0160-0000
7 / 178-180	7.44	2.40	0.89	3.90	1.015	25 50	-	341-0180-0000
8 / 200-203	8.23	2.10	0.89	4.29	1.120	25 50	-	341-0200-0000
- / 225	9.21	1.90	0.74	4.78	1.520	-	25	341-0225-0000
- / 250	10.20	1.75	0.59	5.28	1.685	-	25	341-0250-0000

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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	
11 / 280	11.38	1.50	0.59	5.87	1.880	25	-	341-0280-0000
- / 300	12.17	1.45	0.59	6.26	2.015	-	25	341-0300-0000
- / 350	14.13	1.45	0.44	7.24	2.350	-	25	341-0350-0000

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## Accessories



CLAMP 212



CLAMP 210 BRIDGE CLAMP



CLAMP 212 EC



CLAMP 217



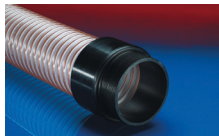
CLAMP 213



CONNECT 228



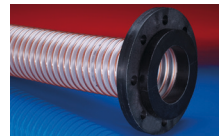
CONNECT 240 + 241



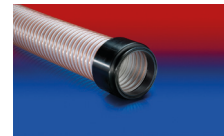
CONNECT 242



CONNECT 243



CONNECT 244



CONNECT 245



CONNECT 246



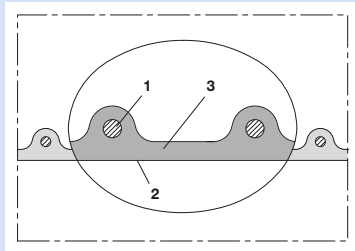
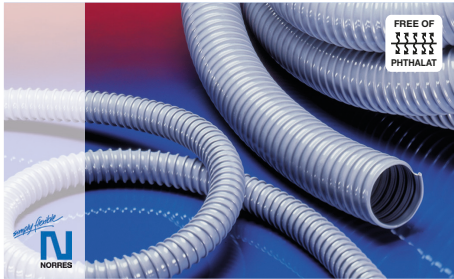
CONNECT 223



CONNECT 270-271

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PVC hose, heavy duty

**Applications**

- flexible hose/ ducting for gases and for dust, powder, fibers
- extraction unit, dust collection systems, filter system, oil mist extraction
- galvanic extraction

**Properties**

- heavy duty
- increased pressure and vacuum resistance
- good resistance to alkalis and acids
- good resistance to chemicals

- phthalate-free
- flame-retardant according to: UL94-HB
- conforms to RoHS guideline

**Temperature range**

- 5°F to 160°F
- short time to 175°F

**Design, material**

- AIRDUC® profile hose
- 1. spring steel wire firmly embedded in the wall
- 2. wall: high grade soft PVC

3. wall thickness 0.055 - 0.060 inch approximate

**Delivery variants**

- further diameters and lengths available on request
- gray (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	
- / 20	1.10	38.65	29.55	0.71	0.190	-	25 50	345-0020-0000
1 / 25	1.30	33.80	29.55	0.81	0.220	25 50	-	345-0025-0000
- / 30	1.57	28.55	28.64	1.00	0.300	-	25 50	345-0030-0000
1.25 / 32	1.65	27.00	26.87	1.02	0.315	-	25 50	345-0032-0000
1.36 / 35	1.75	24.80	24.51	1.08	0.345	-	25 50	345-0035-0000
1.5 / 38	1.89	23.00	22.59	1.14	0.370	25 50	-	345-0038-0000
- / 40	1.97	21.90	21.41	1 1/8	0.385	-	25 50	345-0040-0000
- / 42	2.05	19.80	25.4	1.22	0.405	-	25 50	345-0042-0000
2 / 50-51	2.36	17.70	17.13	1.36	0.470	25 50	-	345-0050-0000
2.36 / 60	2.76	14.85	14.32	1.57	0.560	-	25 50	345-0060-0000
2.5 / 63-65	2.95	13.80	13.29	1.67	0.600	25 50	-	345-0065-0000
- / 70	3.20	12.85	11.22	2.50	0.710	-	25 50	345-0070-0000
3 / 75-76	3.43	12.05	9.74	2.62	0.760	25 50	-	345-0075-0000
- / 80	3.62	11.30	9.15	2.76	0.805	-	25 50	345-0080-0000
3.5 / 89-90	4.00	10.10	8.12	3.03	0.900	25 50	-	345-0090-0000
4 / 100-102	4.41	9.05	7.53	3.31	0.995	25 50	-	345-0100-0000
- / 110	4.80	8.25	6.79	3.58	1.090	-	25 50	345-0110-0000
4.5 / 114-115	5.00	7.90	6.50	3.72	1.130	25 50	-	345-0115-0000
4.72 / 120	5.20	7.60	6.20	3.86	1.175	-	25 50	345-0120-0000
5 / 125-127	5.39	7.30	6.05	4.00	1.225	25 50	-	345-0125-0000
- / 130	5.59	7.05	5.76	4.13	1.270	-	25 50	345-0130-0000
5.5 / 140	6.00	6.55	5.32	4.41	1.365	25 50	-	345-0140-0000
6 / 150-152	6.38	6.10	5.02	4.69	1.565	25 50	-	345-0150-0000
6.3 / 160	6.77	5.75	4.72	4.96	1.665	-	25 50	345-0160-0000
7 / 178-180	7.56	5.10	4.13	5.50	1.870	25 50	-	345-0180-0000
8 / 200-203	8.39	4.55	2.95	6.14	2.110	25	-	345-0200-0000
- / 225	9.37	4.05	2.81	6.83	2.365	-	25	345-0225-0000
- / 250	10.35	3.70	2.51	7.52	2.620	-	25	345-0250-0000
11 / 280	11.54	3.25	2.36	8.35	2.925	25	-	345-0280-0000
- / 300	12.32	3.05	2.21	8.90	3.130	-	25	345-0300-0000
- / 325	13.31	2.85	1.92	9.59	3.675	-	25	345-0325-0000

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



I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	
- / 350	14.29	2.60	1.77	10.28	3.950	-	25	345-0350-0000

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

### Accessories



CLAMP 212



CLAMP 212 EC



CLAMP 217



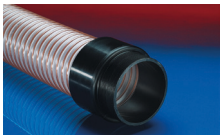
CLAMP 213



CONNECT 228



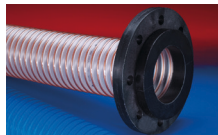
CONNECT 240 + 241



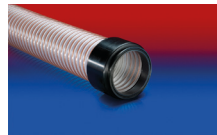
CONNECT 242



CONNECT 243



CONNECT 244



CONNECT 245



CONNECT 246

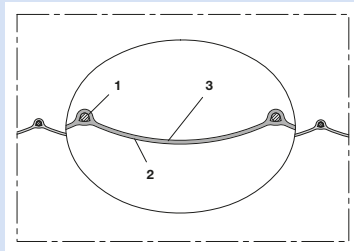


CONNECT 223



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](http://www.norres.com). NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only.



Polyurethane ducting, (to +255°F)

**Applications**

- flexible hose/ ducting for gases and for abrasive dust, powder, fibers
- air supply: UV dryer, IR dryer
- welding fume extraction
- extraction arm
- construction industry: tunnel ventilation
- tent heating, airport gangway heating, heaters for construction sites

- highly flexible + compressible 4:1
- abrasion-resistant
- good resistance to oil, gasoline, and chemicals
- flame-retardant wall according to: NF P 92-503 M1
- conforms to RoHS guideline

- 2. fabric-reinforced tape; wall: polyurethane coated fabric
- 3. wall thickness 0.001 inch approximate

**Delivery variants**

- further diameters and lengths available on request
- dark-gray (standard)
- customer-specific branding
- compressed packed in poly bag (low transportation cost / risk, minimum storage size)

**Properties**

- fabric reinforced
- super-light weight

**Temperature range**

- 40°F to 255°F

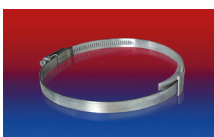
**Design, material**

PROTAPE® tape hose  
1. spring steel wire integrated 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	
2 / 50-51	2.32	13.15 (-)	9.89 (-)	1.32	0.565	25 50	-	370-0051-0000
2.36 / 60	2.68	10.95 (-)	8.42 (-)	1.50	0.545	-	25 50	370-0060-0000
2.5 / 63-65	2.87	10.15 (-)	7.83 (-)	1.50	0.540	25 50	-	370-0065-0000
3 / 75-76	3.31	9.85 (-)	6.79 (-)	1.50	0.520	25 50	-	370-0076-0000
- / 80	3.46	8.25 (-)	6.35 (-)	1.25	0.525	-	25 50	370-0080-0000
3.5 / 89-90	3.86	7.30 (-)	5.61 (-)	1.50	0.540	25 50	-	370-0090-0000
4 / 100-102	4.33	6.60 (-)	4.13 (-)	1.61	0.540	25 50	-	370-0102-0000
- / 110	4.72	6.00 (-)	3.54 (-)	1.30	0.545	-	25 50	370-0110-0000
5 / 125-127	5.43	5.30 (-)	3.10 (-)	1.24	0.620	25 50	-	370-0127-0000
5.5 / 140	5.94	4.70 (-)	2.81 (-)	1.36	0.700	25 50	-	370-0140-0000
6 / 150-152	6.42	4.40 (-)	2.51 (-)	1.25	0.720	25 50	-	370-0152-0000
6.5 / 165	6.93	4.00 (-)	2.36 (-)	1.95	0.855	25 50	-	370-0165-0000
7 / 178-180	7.72	3.70 (-)	2.21 (-)	2.28	0.995	25 50	-	370-0180-0000
8 / 200-203	8.50	3.35 (-)	1.62 (-)	2.70	1.175	25 50	-	370-0203-0000
10 / 254	10.55	2.60 (-)	1.33 (-)	2.32	1.335	25 50	-	370-0254-0000

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

Accessories



CLAMP 210 BRIDGE CLAMP



CLAMP 208



CONNECT 228

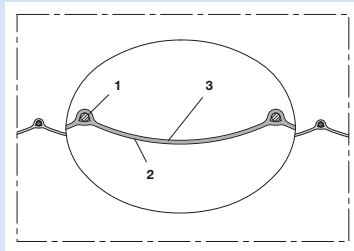


CONNECT 223



CONNECT 270-271

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



PVC ducting, (to +248°F)

**Applications**

- flexible hose/ ducting for gases
- welding fume extraction
- extraction arm
- construction industry: tunnel ventilation
- tent heating, airport gangway heating, heaters for construction sites
- heating system/ heater: fresh air supply

**Properties**

- fabric reinforced
- super-light weight
- highly flexible + compressible 6:1
- very good heat resistance

- good resistance to alkalis and acids
- good resistance to chemicals
- flame-retardant wall according to: NF P 92-503 M1
- conforms to RoHS guideline

**Temperature range**

- 15°F to 230°F
- short time to 250°F

**Design, material**

PROTAPE® tape hose

1. spring steel wire integrated in the wall
2. fabric-reinforced tape; Wall: PVC coated glass

- fabric
- 3. wall thickness 0.001 inch approximate

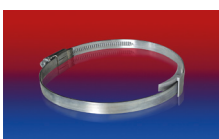
**Delivery variants**

- further diameters and lengths available on request
- gray (standard)
- customer-specific branding
- compressed packed in poly bag (low transportation cost / risk, minimum storage size)

I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	
2 / 50-51	2.13	3.50 (-)	4.28 (-)	1.12	0.080	25	50	371-0051-1015
3 / 75-76	3.11	2.30 (-)	2.36 (-)	1.61	0.120	25	50	371-0076-1015
- / 80	3.27	2.20 (-)	2.36 (-)	1.69	0.130	-	25 50	371-0080-1015
3.5 / 89-90	3.66	1.95 (-)	2.07 (-)	1.89	0.135	25	50	371-0090-1015
4 / 100-102	4.13	1.75 (-)	1.48 (-)	2.13	0.160	25	50	371-0102-1015
- / 110	4.45	1.60 (-)	1.33 (-)	2.28	0.180	-	25 50	371-0110-1015
5 / 125-127	5.12	1.40 (-)	1.03 (-)	2.62	0.215	25	50	371-0127-1015
5.5 / 140	5.63	1.25 (-)	1.03 (-)	2.87	0.235	25	50	371-0140-1015
6 / 150-152	6.10	1.15 (-)	1.03 (-)	3.11	0.250	25	50	371-0152-1015
6.3 / 160	6.42	1.10 (-)	0.59 (-)	3.27	0.295	-	25 50	371-0160-1015
7 / 178-180	7.20	0.95 (-)	0.59 (-)	3.66	0.365	-	25 50	371-0180-1015
8 / 200-203	8.11	8.70 (-)	0.59 (-)	4.11	0.405	25	50	371-0203-1015
10 / 254	10.16	0.65 (-)	0.44 (-)	5.16	0.530	25	50	371-0254-1015
12 / 305	12.17	0.60 (-)	0.30 (-)	6.16	0.640	25	50	371-0305-1015

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

Accessories



CLAMP 210 BRIDGE CLAMP



CLAMP 208



CONNECT 228

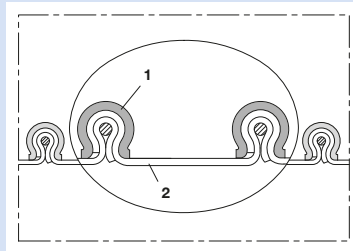


CONNECT 223



CONNECT 270-271

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



PVC clamp profile hose (clip hose), (to +230°F)

**Applications**

- flexible hose/ ducting for gases and for dust, powder, fibers
- welding fume extraction
- extraction arm

**Properties**

- fabric reinforced
- abrasion protection via external clamp profile
- secure clamping of the wall within the clamp profile
- highly flexible + compressible
- good resistance to alkalis and acids

- good resistance to chemicals
- flame-retardant wall according to: NF P 92-503 M2
- conforms to RoHS guideline

**Temperature range**

- 15°F to 175°F
- short time to 230°F

**Design, material**

CP construction

1. clamp profile supporting spiral: galvanized steel
2. fabric-reinforced tape; wall: PVC coated fabric

**Delivery variants**

- further diameters and lengths available on request
- gray (standard), black
- stainless steel (INOX) clamp profile
- double-layer

I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Production Length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	ft	
1.5 / 38	1.97	7.60	10.34	0.55	0.23	20	-	-	465-0038-0000
- / 40	2.05	7.45	10.04	0.59	0.24	-	20	-	465-0040-0000
2 / 50-51	2.44	6.80	10.04	0.71	0.30	25	-	-	465-0050-0000
- / 55	2.64	6.55	8.27	3/4	0.34	25	-	-	465-0055-0000
2.36 / 60	2.83	6.25	7.38	0.79	0.36	-	25	-	465-0060-0000
2.5 / 63-65	3.03	5.95	6.79	0.85	0.40	25	-	-	465-0065-0000
- / 70	3.20	5.75	6.20	-1.14	0.42	25	-	-	465-0070-0000
3 / 75-76	3.43	5.50	5.32	0.93	0.44	25	-	-	465-0075-0000
- / 80	3.62	5.35	4.72	0.94	0.50	-	25	-	465-0080-0000
3.5 / 89-90	4.00	5.00	3.25	1.02	0.36	25	-	-	465-0090-0000
4 / 100-102	4.41	3.05	2.95	1.10	0.39	25	-	-	465-0100-0000
- / 110	4.80	2.90	2.51	1 1/8	0.40	-	12.5 25	-	465-0110-0000
4.5 / 114-115	5.00	2.85	2.36	1.24	0.42	12.5 25	-	-	465-0115-0000
4.72 / 120	5.20	2.75	2.21	1.25	0.44	-	12.5 25	-	465-0120-0000
5 / 125-127	5.39	2.70	2.07	1.32	0.46	12.5 25	-	-	465-0125-0000
- / 130	5.59	2.60	1.77	1.34	0.49	12.5 25	-	-	465-0130-0000
5.5 / 140	6.00	2.55	1.48	1.42	0.53	12.5 25	-	-	465-0140-0000
6 / 150-152	6.38	2.05	1.18	1.50	0.56	12.5 25	-	-	465-0150-0000
6.3 / 160	6.77	1.95	1.03	1.57	0.56	-	12.5 25	-	465-0160-0000
6.5 / 165	6.97	1.95	1.03	1.61	0.57	12.5 25	-	-	465-0165-0000
- / 170	7.17	1.90	1.03	1.65	0.59	-	12.5 25	-	465-0170-0000
- / 175	7.36	1.90	0.89	1.71	0.60	12.5 25	-	-	465-0175-0000
7 / 178-180	7.56	1.80	0.89	1.73	0.62	12.5 25	-	-	465-0180-0000
8 / 200-203	8.35	1.50	0.74	1.89	0.54	12.5 25	-	-	465-0200-0000
- / 215	8.94	1.45	0.59	2.03	0.57	12.5 25	-	-	465-0215-0000
- / 225	9.33	1.40	0.59	2.11	0.59	-	12.5 25	-	465-0225-0000
9 / 228-229	9.45	1.40	0.59	2.13	0.60	12.5 25	-	-	465-0228-0000
- / 250	10.31	1.10	0.59	2.28	0.66	-	12.5 25	-	465-0250-0000
10 / 254	10.47	1.10	0.59	2.32	0.67	12.5 25	-	-	465-0254-0000
- / 275	11.30	1.00	0.44	2.50	0.73	12.5 25	-	-	465-0275-0000

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





I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Production Length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	ft	
11 / 280	11.50	1.00	0.44	2.54	0.74	<b>12.5 25</b>	-	-	465-0280-0000
- / 300	12.28	0.95	0.30	2.68	0.79	-	12.5 25	-	465-0300-0000
12 / 305	12.48	0.95	0.30	2.72	0.80	<b>12.5 25</b>	-	-	465-0305-0000
- / 315	12.87	0.95	0.30	2.78	0.83	<b>12.5 25</b>	-	-	465-0315-0000
- / 325	13.27	0.85	0.30	2.89	0.85	<b>12.5 25</b>	-	-	465-0325-0000
13 / 330	13.46	0.85	0.30	2.93	0.87	<b>12.5 25</b>	-	-	465-0330-0000
- / 350	14.25	0.75	0.30	3.07	0.91	-	12.5 25	-	465-0350-0000
14 / 356	14.49	0.75	0.30	3.11	0.93	<b>12.5 25</b>	-	-	465-0356-0000
- / 375	15.24	0.65	0.30	3.25	0.98	<b>12.5 25</b>	-	-	465-0375-0000
- / 400	16.22	0.65	0.30	3.46	1.04	-	12.5 25	-	465-0400-0000
16 / 405-406	16.46	0.65	0.30	3.50	1.06	<b>12.5 25</b>	-	-	465-0406-0000
- / 450	18.19	0.60	0.15	3.86	1.18	-	12.5 25	-	465-0450-0000
18 / 457	18.46	0.60	0.15	3.92	1.19	<b>12.5 25</b>	-	-	465-0457-0000
- / 500	20.16	0.60	0.15	4.25	1.30	-	12.5 25	-	465-0500-0000
20 / 508	20.47	0.35	0.15	4.31	1.32	<b>12.5 25</b>	-	-	465-0508-0000
- / 600	24.09	0.35	0.15	5.04	1.56	-	12.5 25	-	465-0600-0000
24 / 610	24.49	0.35	0.15	5.12	1.59	<b>12.5 25</b>	-	-	465-0610-0000
- / 700	28.00	0.30	0.06	5.83	1.81	-	12.5 25	-	465-0700-0000
28 / 712	28.50	0.30	0.03	5.93	1.85	<b>12.5 25</b>	-	-	465-0712-0000
- / 750	30.00	0.30	0.03	6.22	1.95	<b>12.5 25</b>	-	-	465-0750-0000
- / 800	31.97	0.30	0.03	6.61	2.08	-	12.5 25	-	465-0800-0000
32 / 813-815	32.56	0.30	0.03	6.73	2.11	<b>12.5 25</b>	-	-	465-0815-0000
- / 900	35.91	0.20	0.03	7.40	2.33	-	12.5 25	-	465-0900-0000
36 / 915	36.50	0.20	0.03	7.52	2.37	<b>12.5 25</b>	-	-	465-0915-0000
- / 1000	39.84	0.15	0.03	8.19	2.59	-	12.5 25	-	465-1000-0000
40 / 1016	40.47	0.15	0.03	8.31	2.63	<b>12.5 25</b>	-	-	465-1016-0000

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

Accessories



CLAMP 212



CLAMP 217



CLAMP 213

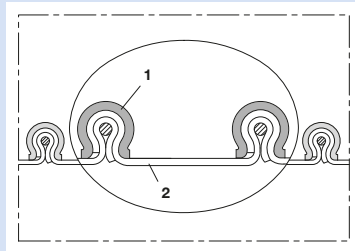
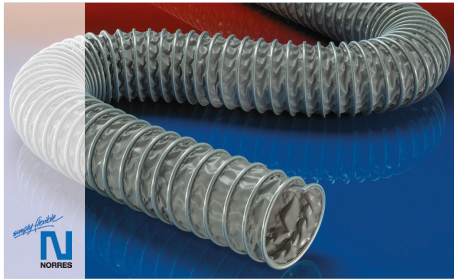


CONNECT 228



CONNECT 270-271

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



PVC clamp profile hose (clip hose), (to +248°F)

**Applications**

- flexible hose/ ducting for gases and for dust, powder, fibers
- welding fume extraction
- extraction arm

**Properties**

- fabric reinforced
- abrasion protection via external clamp profile
- secure clamping of the wall within the clamp profile
- highly flexible + compressible
- very good heat resistance

- good resistance to alkalis and acids
- good resistance to chemicals
- flame-retardant wall according to: NF P 92-503 M1
- conforms to RoHS guideline

**Temperature range**

- 15°F to 230°F
- short time to 250°F

**Design, material**

- CP construction
1. clamp profile supporting spiral: galvanized steel

2. fabric-reinforced tape; Wall: PVC coated glass fabric

**Delivery variants**

- further diameters and lengths available on request
- gray (standard)
- stainless steel (INOX) clamp profile
- double-layer

I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Production Length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	ft	
1.5 / 38	1.97	13.05	10.93	0.55	0.23	20	-	-	466-0038-0000
- / 40	2.05	12.60	10.63	0.59	0.24	-	20	-	466-0040-0000
2 / 50-51	2.44	11.90	9.45	0.71	0.30	25	-	-	466-0050-0000
- / 55	2.64	10.90	7.68	3/4	0.32	25	-	-	466-0055-0000
2.36 / 60	2.83	9.45	6.50	0.79	0.35	-	25	-	466-0060-0000
2.5 / 63-65	3.03	8.55	5.91	0.85	0.37	25	-	-	466-0065-0000
- / 70	3.20	7.55	5.02	7/8	0.40	25	-	-	466-0070-0000
3 / 75-76	3.43	6.55	4.28	0.93	0.43	25	-	-	466-0075-0000
- / 80	3.62	6.10	3.54	0.94	0.45	-	25	-	466-0080-0000
3.5 / 89-90	4.00	5.10	3.10	1.02	0.50	25	-	-	466-0090-0000
4 / 100-102	4.41	4.35	2.66	1.10	0.37	25	-	-	466-0100-0000
- / 110	4.80	3.65	2.07	1 1/8	0.40	-	12.5 25	-	466-0110-0000
4.5 / 114-115	5.00	3.35	1.92	1.24	0.42	12.5 25	-	-	466-0115-0000
4.72 / 120	5.20	3.20	1.77	1.25	0.43	-	12.5 25	-	466-0120-0000
5 / 125-127	5.39	3.05	1.62	1.32	0.45	12.5 25	-	-	466-0125-0000
- / 130	5.59	2.75	1.48	1.34	0.46	12.5 25	-	-	466-0130-0000
5.5 / 140	6.00	2.45	1.33	1.42	0.50	12.5 25	-	-	466-0140-0000
6 / 150-152	6.38	2.30	1.18	1.50	0.54	12.5 25	-	-	466-0150-0000
6.3 / 160	6.77	2.05	1.03	1.57	0.56	-	12.5 25	-	466-0160-0000
6.5 / 165	6.97	1.95	1.03	1.61	0.58	12.5 25	-	-	466-0165-0000
- / 170	7.17	1.90	0.89	1.65	0.60	-	12.5 25	-	466-0170-0000
- / 175	7.36	1.75	0.74	1.71	0.62	12.5 25	-	-	466-0175-0000
7 / 178-180	7.56	1.65	0.65	1.73	0.63	12.5 25	-	-	466-0180-0000
8 / 200-203	8.35	1.45	0.59	1.89	0.54	12.5 25	-	-	466-0200-0000
- / 215	8.94	1.25	0.53	2.03	0.58	12.5 25	-	-	466-0215-0000
- / 225	9.33	1.15	0.47	2.11	0.60	-	12.5 25	-	466-0225-0000
9 / 228-229	9.45	1.15	0.44	2.13	0.62	12.5 25	-	-	466-0228-0000
- / 250	10.31	1.00	0.35	2.28	0.67	-	12.5 25	-	466-0250-0000
10 / 254	10.47	1.00	0.30	2.32	0.69	12.5 25	-	-	466-0254-0000
- / 275	11.30	0.85	0.30	2.50	0.74	12.5 25	-	-	466-0275-0000

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



I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Production Length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	ft	
11 / 280	11.50	0.85	0.30	2.54	0.75	12.5 25	-	-	466-0280-0000
- / 300	12.28	0.80	0.27	2.68	0.81	-	12.5 25	-	466-0300-0000
12 / 305	12.48	0.80	0.30	2.72	0.82	12.5 25	-	-	466-0305-0000
- / 315	12.87	0.75	0.24	2.78	0.85	12.5 25	-	-	466-0315-0000
- / 325	13.27	0.65	0.21	2.89	0.87	12.5 25	-	-	466-0325-0000
13 / 330	13.46	0.65	0.15	2.93	0.88	12.5 25	-	-	466-0330-0000
- / 350	14.25	0.60	0.18	3.07	0.93	-	12.5 25	-	466-0350-0000
14 / 356	14.49	0.60	0.15	3.11	0.95	12.5 25	-	-	466-0356-0000
- / 375	15.24	0.50	0.15	3.25	1.00	12.5 25	-	-	466-0375-0000
- / 400	16.22	0.45	0.15	3.46	1.07	-	12.5 25	-	466-0400-0000
16 / 405-406	16.46	0.45	0.15	3.50	1.08	12.5 25	-	-	466-0406-0000
- / 450	18.19	0.35	0.12	3.86	1.20	-	12.5 25	-	466-0450-0000
18 / 457	18.46	0.35	0.15	3.92	1.22	12.5 25	-	-	466-0457-0000
- / 500	20.16	0.30	0.09	4.25	1.33	-	12.5 25	-	466-0500-0000
20 / 508	20.47	0.30	0.15	4.31	1.35	12.5 25	-	-	466-0508-0000
- / 600	24.09	0.20	0.06	5.04	1.59	-	12.5 25	-	466-0600-0000
24 / 610	24.49	0.20	0.06	5.12	1.62	12.5 25	-	-	466-0610-0000
- / 700	28.00	0.20	0.06	5.83	1.85	-	12.5 25	-	466-0700-0000
28 / 712	28.50	0.20	0.06	5.93	1.89	12.5 25	-	-	466-0712-0000
- / 750	30.00	0.20	0.03	6.22	1.99	12.5 25	-	-	466-0750-0000
- / 800	31.97	0.15	0.03	6.61	2.12	-	12.5 25	-	466-0800-0000
32 / 813-815	32.56	0.15	0.03	6.73	2.16	12.5 25	-	-	466-0815-0000
- / 900	35.91	0.15	0.03	7.40	2.38	-	12.5 25	-	466-0900-0000
36 / 915	36.50	0.15	0.03	7.52	2.42	12.5 25	-	-	466-0915-0000
- / 1000	39.84	0.15	0.03	8.19	2.64	-	12.5 25	-	466-1000-0000
40 / 1016	40.47	0.15	0.03	8.31	2.69	12.5 25	-	-	466-1016-0000

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

Accessories



CLAMP 212



CLAMP 217



CLAMP 213

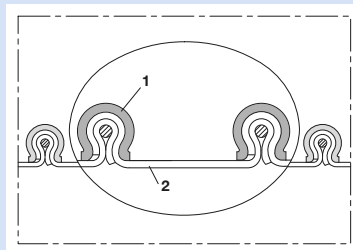
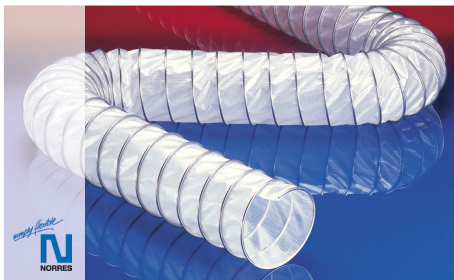


CONNECT 228



CONNECT 270-271

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



Polyethylene clamp profile hose (clip hose)

**Applications**

- flexible hose/ ducting for gases and for dust, powder, fibers
- chemical industry: chemical vapors, vapor return hose at loading arm, paint steam, spray mist extraction
- asbestos removal
- construction drying

**Properties**

- abrasion protection via external clamp profile

- secure clamping of the wall within the clamp profile
- highly flexible + compressible 4:1
- odorless and tasteless
- good resistance to alkalis and acids
- extremely good resistance to chemicals
- conforms to RoHS guideline

**Temperature range**

- 30°F to 175°F

**Design, material**

CP construction

- clamp profile supporting spiral: galvanized steel
- wall: polyethylene fabric (LDPE + HDPE)

**Delivery variants**

- further diameters and lengths available on request
- stainless steel (INOX) clamp profile
- double-layer

I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Production Length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	ft	
2 / 50-51	2.44	7.10	7.97	0.71	0.30	25	-	-	457-0050-0000
- / 55	2.64	6.65	7.38	3/4	0.32	25	-	-	457-0055-0000
2.36 / 60	2.83	6.40	6.50	0.79	0.34	-	25	-	457-0060-0000
2.5 / 63-65	3.03	6.10	5.91	0.85	0.36	25	-	-	457-0065-0000
- / 70	3.20	5.80	5.32	7/8	0.40	25	-	-	457-0070-0000
3 / 75-76	3.43	5.50	4.72	0.93	0.42	25	-	-	457-0075-0000
- / 80	3.62	5.30	4.13	0.94	0.45	-	25	-	457-0080-0000
3.5 / 89-90	4.00	4.95	2.95	1.02	0.50	25	-	-	457-0090-0000
4 / 100-102	4.41	3.25	2.51	1.10	0.36	25	-	-	457-0100-0000
- / 110	4.80	3.05	2.21	1 1/8	0.39	-	12.5 25	-	457-0110-0000
4.5 / 114-115	5.00	2.95	2.07	1.24	0.41	12.5 25	-	-	457-0115-0000
4.72 / 120	5.20	2.90	1.92	1.25	0.43	-	12.5 25	-	457-0120-0000
5 / 125-127	5.39	2.85	1.77	1.32	0.44	12.5 25	-	-	457-0125-0000
- / 130	5.59	2.60	1.62	1.34	0.46	12.5 25	-	-	457-0130-0000
5.5 / 140	6.00	2.60	1.18	1.42	0.50	12.5 25	-	-	457-0140-0000
6 / 150-152	6.38	1.75	1.03	1.50	0.53	12.5 25	-	-	457-0150-0000
6.3 / 160	6.77	1.65	0.89	1.57	0.57	-	12.5 25	-	457-0160-0000
6.5 / 165	6.97	1.60	0.89	1.61	0.58	12.5 25	-	-	457-0165-0000
- / 170	7.17	1.60	0.89	1.65	0.60	-	12.5 25	-	457-0170-0000
- / 175	7.36	1.60	0.89	1.71	0.61	12.5 25	-	-	457-0175-0000
7 / 178-180	7.56	1.60	0.74	1.73	0.63	12.5 25	-	-	457-0180-0000
8 / 200-203	8.35	1.45	0.59	1.89	0.54	12.5 25	-	-	457-0200-0000
- / 215	8.94	1.40	0.59	2.03	0.58	12.5 25	-	-	457-0215-0000
- / 225	9.33	1.30	0.59	2.11	0.60	-	12.5 25	-	457-0225-0000
9 / 228-229	9.45	1.15	0.59	2.13	0.60	12.5 25	-	-	457-0228-0000
- / 250	10.31	1.00	0.44	2.28	0.66	-	12.5 25	-	457-0250-0000
10 / 254	10.47	0.95	0.44	2.32	0.67	12.5 25	-	-	457-0254-0000
- / 275	11.30	0.85	0.44	2.50	0.73	12.5 25	-	-	457-0275-0000
11 / 280	11.50	0.85	0.44	2.54	0.75	12.5 25	-	-	457-0280-0000
- / 300	12.28	0.85	0.30	2.68	0.80	-	12.5 25	-	457-0300-0000

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I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Production Length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	ft	
12 / 305	12.48	0.80	0.30	2.72	0.81	12.5 25	-	-	457-0305-0000
- / 315	12.87	0.75	0.30	2.78	0.84	12.5 25	-	-	457-0315-0000
- / 325	13.27	0.65	0.30	2.89	0.87	12.5 25	-	-	457-0325-0000
13 / 330	13.46	0.65	0.30	2.93	0.88	12.5 25	-	-	457-0330-0000
- / 350	14.25	0.65	0.30	3.07	0.93	-	12.5 25	-	457-0350-0000
14 / 356	14.49	0.60	0.30	3.11	0.95	12.5 25	-	-	457-0356-0000
- / 375	15.24	0.60	0.30	3.25	1.00	12.5 25	-	-	457-0375-0000
- / 400	16.22	0.60	0.15	3.46	1.10	-	12.5 25	-	457-0400-0000
16 / 405-406	16.46	0.50	0.15	3.50	1.07	12.5 25	-	-	457-0406-0000
- / 450	18.19	0.50	0.15	3.86	1.19	-	12.5 25	-	457-0450-0000
18 / 457	18.46	0.50	0.15	3.92	1.21	12.5 25	-	-	457-0457-0000
- / 500	20.16	0.35	0.15	4.25	1.32	-	12.5 25	-	457-0500-0000
20 / 508	20.47	0.35	0.15	4.31	1.34	12.5 25	-	-	457-0508-0000
- / 600	24.09	0.35	0.15	5.04	1.59	-	12.5 25	-	457-0600-0000
24 / 610	24.49	0.35	0.15	5.12	1.62	12.5 25	-	-	457-0610-0000
- / 700	28.00	0.30	0.06	5.83	1.84	-	12.5 25	-	457-0700-0000
28 / 712	28.50	0.30	0.03	5.93	1.87	12.5 25	-	-	457-0712-0000
- / 750	30.00	0.30	0.03	6.22	1.96	12.5 25	-	-	457-0750-0000
- / 800	31.97	0.20	0.03	6.61	2.10	-	12.5 25	-	457-0800-0000
32 / 813-815	32.56	0.20	0.03	6.73	2.14	12.5 25	-	-	457-0815-0000
- / 900	35.91	0.20	0.03	7.40	2.36	-	12.5 25	-	457-0900-0000
36 / 915	36.50	0.20	0.03	7.52	2.40	12.5 25	-	-	457-0915-0000
- / 1000	39.84	0.20	0.03	8.19	2.62	-	12.5 25	-	457-1000-0000
40 / 1016	40.47	0.20	0.03	8.31	2.66	12.5 25	-	-	457-1016-0000

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

Accessories



CLAMP 212



CLAMP 217



CLAMP 213



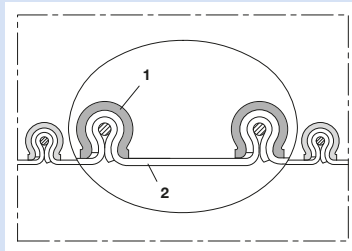
CONNECT 228



CONNECT 270-271

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Electrically conductive polyethylene clamp profile hose (clip hose)

**Applications**

- flexible hose/ ducting for gases and for dust, powder, fibers
- extraction arm
- chemical industry: chemical vapors, vapor return hose at loading arm, paint steam, spray mist extraction
- explosion hazard area

**Properties**

- abrasion protection via external clamp profile
- secure clamping of the wall within the clamp profile

- highly flexible + compressible 4:1
- good resistance to alkalis and acids
- extremely good resistance to chemicals
- 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: 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**

- 30°F to 175°F

**Design, material**

CP construction

- clamp profile supporting spiral: galvanized steel
- wall: electrically conductive polyethylene (PE)

**Delivery variants**

- further diameters and lengths available on request
- black (standard)
- stainless steel (INOX) clamp profile

I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Production Length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	ft	
1.5 / 38	1.97	8.40	9.15	0.55	0.325	25	-	-	457-0038-1003
- / 40	2.05	8.10	9.01	0.59	0.335	-	25	-	457-0040-1003
2 / 50-51	2.44	7.10	7.97	0.71	0.405	25	-	-	457-0050-1003
- / 55	2.64	6.65	7.38	3/4	0.435	-	25	-	457-0055-1003
2.36 / 60	2.83	6.40	6.50	0.79	0.470	-	25	-	457-0060-1003
2.5 / 63-65	3.03	6.10	5.91	0.85	0.510	25	-	-	457-0065-1003
- / 70	3.20	5.80	5.32	7/8	0.545	-	25	-	457-0070-1003
3 / 75-76	3.43	5.50	4.72	0.93	0.580	25	-	-	457-0075-1003
- / 80	3.62	5.30	4.13	0.94	0.620	-	25	-	457-0080-1003
3.5 / 89-90	4.00	4.95	2.95	1.02	0.685	25	-	-	457-0090-1003
4 / 100-102	4.41	3.25	2.51	1.10	0.550	25	-	-	457-0100-1003
- / 110	4.80	3.05	2.21	1 1/8	0.605	-	12.5 25	-	457-0110-1003
4.5 / 114-115	5.00	2.95	2.07	1.24	0.630	12.5 25	-	-	457-0115-1003
4.72 / 120	5.20	2.90	1.92	1.25	0.660	-	12.5 25	-	457-0120-1003
5 / 125-127	5.39	2.85	1.77	1.32	0.670	12.5 25	-	-	457-0125-1003
- / 130	5.59	2.75	1.62	1.34	0.710	-	12.5 25	-	457-0130-1003
5.5 / 140	6.00	2.60	1.18	1.42	0.765	12.5 25	-	-	457-0140-1003
6 / 150-152	6.38	1.75	1.03	1.50	0.550	12.5 25	-	-	457-0150-1003
6.3 / 160	6.77	1.65	0.89	1.57	0.565	-	12.5 25	-	457-0160-1003
6.5 / 165	6.97	1.60	0.89	1.61	0.580	-	12.5 25	-	457-0165-1003
- / 170	7.17	1.60	0.89	1.65	0.600	-	12.5 25	-	457-0170-1003
- / 175	7.36	1.70	0.89	1.71	0.610	-	12.5 25	-	457-0175-1003
7 / 178-180	7.56	1.60	0.74	1.73	0.630	12.5 25	-	-	457-0180-1003
8 / 200-203	8.35	1.45	0.59	1.89	0.540	12.5 25	-	-	457-0200-1003
- / 215	8.94	1.40	0.59	2.03	0.580	-	12.5 25	-	457-0215-1003
- / 225	9.33	1.30	0.59	2.11	0.600	-	12.5 25	-	457-0225-1003
9 / 228-229	9.45	1.15	0.59	2.13	0.605	12.5 25	-	-	457-0228-1003
- / 250	10.31	1.00	0.44	2.28	0.665	-	12.5 25	-	457-0250-1003
10 / 254	10.47	0.95	0.44	2.32	0.675	12.5 25	-	-	457-0254-1003

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. Additional information at [www.norres.com](http://www.norres.com). NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only.



I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Production Length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	ft	
- / 275	11.30	0.85	0.44	2.50	0.730	-	12.5 25	-	457-0275-1003
11 / 280	11.50	0.85	0.44	2.54	0.745	-	12.5 25	-	457-0280-1003
- / 300	12.28	0.85	0.30	2.68	0.795	-	12.5 25	-	457-0300-1003
12 / 305	12.48	0.80	0.30	2.72	0.810	<b>12.5 25</b>	-	-	457-0305-1003
- / 315	12.87	0.75	0.30	2.78	0.840	-	12.5 25	-	457-0315-1003
- / 325	13.27	0.65	0.30	2.89	0.865	-	12.5 25	-	457-0325-1003
13 / 330	13.46	0.65	0.30	2.93	0.880	-	12.5 25	-	457-0330-1003
- / 350	14.25	0.65	0.30	3.07	0.925	-	12.5 25	-	457-0350-1003
14 / 356	14.49	0.60	0.30	3.11	0.945	<b>12.5 25</b>	-	-	457-0356-1003
- / 375	15.24	0.60	0.30	3.25	0.995	-	12.5 25	-	457-0375-1003
- / 400	16.22	0.60	0.15	3.46	1.055	-	12.5 25	-	457-0400-1003
16 / 405-406	16.46	0.50	0.15	3.50	1.070	<b>12.5 25</b>	-	-	457-0406-1003
- / 450	18.19	0.50	0.15	3.86	1.190	-	12.5 25	-	457-0450-1003
18 / 457	18.46	0.50	0.15	3.92	1.205	<b>12.5 25</b>	-	-	457-0457-1003
- / 500	20.16	0.35	0.15	4.25	1.315	-	12.5 25	-	457-0500-1003
20 / 508	20.47	0.35	0.15	4.31	1.335	<b>12.5 25</b>	-	-	457-0508-1003
- / 600	24.09	0.35	0.15	5.04	1.585	-	12.5 25	-	457-0600-1003
24 / 610	24.49	0.35	0.15	5.12	1.615	<b>12.5 25</b>	-	-	457-0610-1003
- / 700	28.00	0.30	0.06	5.83	1.840	-	12.5 25	-	457-0700-1003
28 / 712	28.50	0.30	0.03	5.93	1.870	<b>12.5 25</b>	-	-	457-0712-1003
- / 750	30.00	0.30	0.03	6.22	1.960	-	12.5 25	-	457-0750-1003
- / 800	31.97	0.20	0.03	6.61	2.095	-	12.5 25	-	457-0800-1003
32 / 813-815	32.56	0.20	0.03	6.73	2.135	<b>12.5 25</b>	-	-	457-0815-1003
- / 900	35.91	0.20	0.03	7.40	2.360	-	12.5 25	-	457-0900-1003
36 / 915	36.50	0.20	0.03	7.52	2.400	<b>12.5 25</b>	-	-	457-0915-1003
- / 1000	39.84	0.20	0.03	8.19	2.620	-	12.5 25	-	457-1000-1003
40 / 1016	40.47	0.20	0.03	8.31	2.660	<b>12.5 25</b>	-	-	457-1016-1003

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/](http://www.norres.com/us/technology-us/)

Accessories



CLAMP 212



CLAMP 217



CLAMP 213

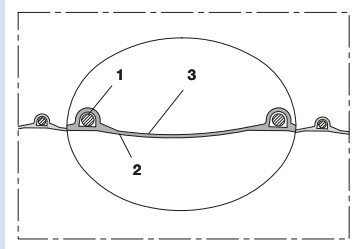


CONNECT 228



CONNECT 270-271

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Electrically conductive polyethylene hose, light weight

**Applications**

- flexible hose/ ducting for gases and for dust, powder, fibers
- extraction arm
- galvanic extraction
- chemical industry: chemical vapors, vapor return hose at loading arm, paint steam, spray mist extraction
- explosion hazard area
- Coal mine, mine, tunnelling: ventilation, methane extraction

**Properties**

- light weight
- highly flexible + compressible
- good resistance to alkalis and acids

- extremely good resistance to chemicals
- 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 1 and 2 (gases), for use in zone 0 (gases)
- conforms to RoHS guideline

**Temperature range**

- 30°F to 175°F

**Design, material**

- patented PROTAPE® tape hose
- spring steel wire integrated in the wall
  - wall: electrically conductive polyethylene (PE)
  - wall thickness 0.02 inch approximate

**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	
- / 40	1.85	6.80 (-)	8.25 (-)	1.06	0.200	-	25	322-0040-1003
2 / 50-51	2.28	5.50 (-)	7.10 (-)	1.30	0.120	25	-	322-0050-1003
2.36 / 60	2.68	4.55 (-)	5.60 (-)	1.50	0.140	-	25	322-0060-1003
3 / 75-76	3.27	3.70 (-)	3.85 (-)	1.79	0.175	25	-	322-0075-1003
- / 80	3.46	3.50 (-)	3.55 (-)	1.89	0.195	-	25	322-0080-1003
3.5 / 89-90	3.86	3.05 (-)	2.95 (-)	2.09	0.210	25	-	322-0090-1003
4 / 100-102	4.25	2.75 (-)	2.35 (-)	2.28	0.250	25	-	322-0100-1003
- / 110	4.65	2.55 (-)	2.20 (-)	2.50	0.270	-	25	322-0110-1003
4.72 / 120	5.04	2.30 (-)	2.05 (-)	2.68	0.295	-	25	322-0120-1003
5 / 125-127	5.24	2.25 (-)	1.60 (-)	2.78	0.315	25	-	322-0125-1003
5.5 / 140	5.83	1.95 (-)	1.50 (-)	3.07	0.350	25	-	322-0140-1003
6 / 150-152	6.22	1.80 (-)	1.50 (-)	3.27	0.370	25	-	322-0150-1003
6.3 / 160	6.61	1.75 (-)	1.35 (-)	3.46	0.390	-	25	322-0160-1003
7 / 178-180	7.40	1.50 (-)	1.05 (-)	3.86	0.450	25	-	322-0180-1003
8 / 200-203	8.19	1.40 (-)	1.05 (-)	4.25	0.490	25	-	322-0200-1003
- / 250	10.16	1.10 (-)	0.45 (-)	5.24	0.665	-	25	322-0250-1003
- / 300	12.17	0.95 (-)	0.30 (-)	6.26	0.840	-	25	322-0300-1003

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/](http://www.norres.com/us/technology-us/)

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Accessories



CLAMP 212



CLAMP 217



CLAMP 213



CONNECT 228

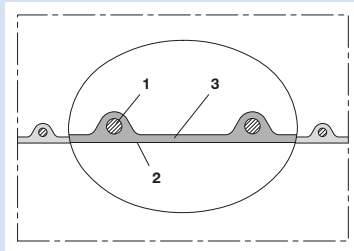
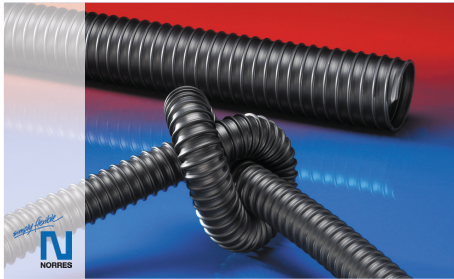


CONNECT 223



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](http://www.norres.com). NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only.



Electrically conductive polyethylene hose, medium-heavy duty

**Applications**

- flexible hose/ ducting for gases and for dust, powder, fibers
- chemical industry: chemical vapors, vapor return hose at loading arm, paint steam, spray mist extraction
- explosion hazard area
- Coal mine, mine, tunnelling: ventilation, methane extraction

**Properties**

- medium-heavy duty
- good resistance to alkalis and acids
- extremely good resistance to chemicals

- 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)
- conforms to RoHS guideline

**Temperature range**

- 30°F to 175°F

**Design, material**

AIRDUC® profile hose

- spring steel wire firmly embedded in the wall
- wall: electrically conductive polyethylene (PE)
- wall thickness 0.032 inch approximate

**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	
1.25 / 32	1.54	11.30	15.65	0.91	0.150	-	25	362-0032-1003
1.5 / 38	1.75	9.55	13.30	1.02	0.175	25	-	362-0038-1003
- / 40	1.85	9.15	12.55	1.06	0.180	-	25	362-0040-1003
2 / 50-51	2.24	7.30	10.05	1.25	0.220	25	-	362-0050-1003
2.36 / 60	2.64	6.15	8.70	1.46	0.270	-	25	362-0060-1003
- / 70	3.11	5.30	6.20	1.73	0.310	-	25	362-0070-1003
- / 80	3.50	4.65	5.45	1.93	0.350	-	25	362-0080-1003
3.5 / 89-90	3.90	4.15	4.90	2.13	0.395	25	-	362-0090-1003
4 / 100-102	4.29	3.70	4.30	2.32	0.510	25	-	362-0100-1003
5 / 125-127	5.28	2.95	3.55	2.81	0.630	25	-	362-0125-1003
5.5 / 140	5.87	2.70	3.10	3.11	0.710	25	-	362-0140-1003
6 / 150-152	6.26	2.45	2.95	3.31	0.760	25	-	362-0150-1003
6.3 / 160	6.65	2.30	2.65	3.50	0.815	-	25	362-0160-1003
8 / 200-203	8.27	1.90	2.20	4.33	1.015	25	-	362-0200-1003
- / 250	10.24	1.50	1.80	5.31	1.265	-	25	362-0250-1003
11 / 280	11.42	1.30	1.65	5.91	1.410	25	-	362-0280-1003
- / 300	12.20	1.25	1.50	6.30	1.520	-	25	362-0300-1003

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/](http://www.norres.com/us/technology-us/)

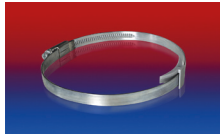
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Accessories



CLAMP 212



CLAMP 210 BRIDGE CLAMP



CLAMP 212 EC



CLAMP 217



CLAMP 213



CONNECT 228

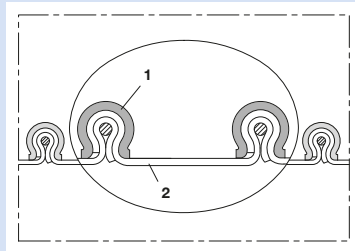


CONNECT 223



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](http://www.norres.com). NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only.



Clamp profile hose (clip hose), (up to +338°F)

**Applications**

- flexible hose/ ducting for hot and cold gases and for dust, powder, fibers
- chemical industry: chemical vapors, vapor return hose at loading arm, paint steam, spray mist extraction
- industrial washing machine: air blower hose for drying
- high temperature extraction: oven, foundry, furnace, smelting, ceramics industry, glass industry, steel plant, aluminium mill
- bellows, compensators

**Properties**

- abrasion protection via external clamp profile
- secure clamping of the wall within the clamp profile
- highly flexible + compressible 4:1
- vibration resistant
- very good heat resistance
- good resistance to oil, gasoline, and chemicals
- good resistance to alkalis and acids
- conforms to RoHS guideline

**Temperature range**

- 40°F to 340°F

**Design, material**

CP construction

- clamp profile supporting spiral: galvanized steel
- wall: CSM coated polyester fabric

**Delivery variants**

- further diameters and lengths available on request
- stainless steel (INOX) clamp profile
- double-layer

I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Production Length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	ft	
1.5 / 38	1.97	11.40	13.29	0.83	0.385	25	-	-	450-0038-0000
- / 40	2.05	11.10	12.99	7/8	0.395	-	25	-	450-0040-0000
2 / 50-51	2.44	9.15	11.22	1.00	0.510	25	-	-	450-0050-0000
- / 55	2.64	8.70	10.34	1.04	0.550	25	-	-	450-0055-0000
2.36 / 60	2.83	8.25	9.45	1.10	0.600	-	25	-	450-0060-0000
2.5 / 63-65	3.03	7.90	8.56	1.16	0.645	25	-	-	450-0065-0000
- / 70	3.20	7.60	7.68	1.22	0.690	25	-	-	450-0070-0000
3 / 75-76	3.43	7.25	6.79	1.28	0.740	25	-	-	450-0075-0000
- / 80	3.62	7.05	5.91	1.34	0.780	-	25	-	450-0080-0000
3.5 / 89-90	4.00	6.55	4.13	1.46	0.875	25	-	-	450-0090-0000
4 / 100-102	4.41	4.35	3.54	1.10	0.690	25	-	-	450-0100-0000
- / 110	4.80	4.15	3.10	1 1/8	0.760	-	12.5 25	-	450-0110-0000
4.5 / 114-115	5.00	4.00	2.89	1.24	0.785	12.5 25	-	-	450-0115-0000
4.72 / 120	5.20	3.90	2.66	1.25	0.820	-	12.5 25	-	450-0120-0000
5 / 125-127	5.39	3.75	2.51	1.32	0.855	12.5 25	-	-	450-0125-0000
- / 130	5.59	3.70	2.21	1.34	0.885	12.5 25	-	-	450-0130-0000
5.5 / 140	6.00	3.55	1.77	1.42	0.955	12.5 25	-	-	450-0140-0000
6 / 150-152	6.38	2.40	1.48	1.50	0.700	12.5 25	-	-	450-0150-0000
6.3 / 160	6.77	2.30	1.33	1.57	0.745	-	12.5 25	-	450-0160-0000
6.5 / 165	6.97	2.25	1.18	1.61	0.765	12.5 25	-	-	450-0165-0000
- / 170	7.17	2.25	1.18	1.65	0.785	-	12.5 25	-	450-0170-0000
- / 175	7.36	2.20	1.18	1.71	0.815	12.5 25	-	-	450-0175-0000
7 / 178-180	7.56	2.20	1.18	1.73	0.835	12.5 25	-	-	450-0180-0000
8 / 200-203	8.35	2.05	0.89	1.89	0.920	12.5 25	-	-	450-0200-0000
- / 215	8.94	1.95	0.89	2.03	0.990	12.5 25	-	-	450-0215-0000
- / 225	9.33	1.90	0.74	2.11	1.035	-	12.5 25	-	450-0225-0000
9 / 228-229	9.45	1.90	0.74	2.13	1.050	12.5 25	-	-	450-0228-0000
- / 250	10.31	1.45	0.74	2.28	1.150	-	12.5 25	-	450-0250-0000
10 / 254	10.47	1.40	0.74	2.32	1.165	12.5 25	-	-	450-0254-0000

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I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Production Length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	ft	
- / 275	11.30	1.30	0.59	2.50	1.255	<b>12.5 25</b>	-	-	450-0275-0000
11 / 280	11.50	1.30	0.59	2.54	1.280	<b>12.5 25</b>	-	-	450-0280-0000
- / 300	12.28	1.25	0.44	2.68	1.370	-	12.5 25	-	450-0300-0000
12 / 305	12.48	1.25	0.44	2.72	1.395	<b>12.5 25</b>	-	-	450-0305-0000
- / 315	12.87	1.25	0.44	2.78	1.440	<b>12.5 25</b>	-	-	450-0315-0000
- / 325	13.27	1.15	0.44	2.89	1.485	<b>12.5 25</b>	-	-	450-0325-0000
13 / 330	13.46	1.15	0.44	2.93	1.505	<b>12.5 25</b>	-	-	450-0330-0000
- / 350	14.25	0.95	0.44	3.07	1.595	-	12.5 25	-	450-0350-0000
14 / 356	14.49	0.95	0.44	3.11	1.615	<b>12.5 25</b>	-	-	450-0356-0000
- / 375	15.24	0.85	0.30	3.25	1.680	<b>12.5 25</b>	-	-	450-0375-0000
- / 400	16.22	0.85	0.30	3.46	1.820	-	12.5 25	-	450-0400-0000
16 / 405-406	16.46	0.80	0.30	3.50	1.850	<b>12.5 25</b>	-	-	450-0406-0000
- / 450	18.19	0.80	0.30	3.86	2.045	-	12.5 25	-	450-0450-0000
18 / 457	18.46	0.75	0.30	3.92	2.075	<b>12.5 25</b>	-	-	450-0457-0000
- / 500	20.16	0.75	0.15	4.25	2.265	-	12.5 25	-	450-0500-0000
20 / 508	20.47	0.50	0.15	4.31	2.300	<b>12.5 25</b>	-	-	450-0508-0000
- / 600	24.09	0.45	0.15	5.04	2.715	-	12.5	-	450-0600-0000
24 / 610	24.49	0.45	0.15	5.12	2.760	-	12.5	-	450-0610-0000
- / 700	28.00	0.35	0.06	5.83	3.165	-	12.5	-	450-0700-0000
28 / 712	28.50	0.35	0.06	5.93	3.220	-	12.5	-	450-0712-0000
- / 750	30.00	0.35	0.06	6.22	3.385	-	12.5	-	450-0750-0000
- / 800	31.97	0.35	0.06	6.61	3.610	-	12.5	-	450-0800-0000
32 / 813-815	32.56	0.35	0.06	6.73	3.675	-	12.5	-	450-0815-0000
- / 900	35.91	0.30	0.03	7.40	4.060	-	12.5	-	450-0900-0000
36 / 915	36.50	0.30	0.03	7.52	4.125	-	12.5	-	450-0915-0000
- / 1000	39.84	0.30	0.03	8.19	4.510	-	12.5	-	450-1000-0000
40 / 1016	40.47	0.30	0.03	8.31	4.580	-	12.5	-	450-1016-0000

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

Accessories



CLAMP 212



CLAMP 217



CLAMP 213

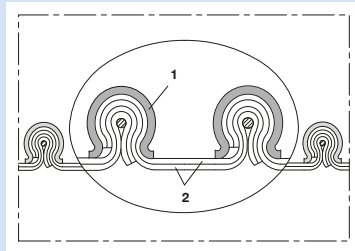


CONNECT 228



CONNECT 270-271

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



Clamp profile hose (clip hose), double-layer (up to +340°F)

**Applications**

- flexible hose/ ducting for hot and cold gases and for dust, powder, fibers
- chemical industry: chemical vapors, vapor return hose at loading arm, paint steam, spray mist extraction

**Properties**

- abrasion protection via external clamp profile
- secure clamping of the wall within the clamp profile
- highly flexible + compressible 4:1

- very good heat resistance
- anti-adhesive
- good resistance to alkalis and acids
- extremely good resistance to chemicals
- conforms to RoHS guideline

**Temperature range**

- 40°F to 340°F

**Design, material**

CP construction

- clamp profile supporting spiral: all-stainless steel (INOX)
- double-layer wall; wall: PTFE film interior, CSM coated polyester fabric exterior

**Delivery variants**

- further diameters and lengths available on request

I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Production Length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	ft	
2 / 50-51	2.44	5.95	8.86	0.71	0.565	25	-	-	472-0050-0000
- / 55	2.64	5.65	8.27	3/4	0.610	25	-	-	472-0055-0000
2.36 / 60	2.83	5.35	7.38	0.79	0.665	-	25	-	472-0060-0000
2.5 / 63-65	3.03	5.15	6.79	0.85	0.710	25	-	-	472-0065-0000
- / 70	3.20	4.95	6.20	7/8	0.765	25	-	-	472-0070-0000
3 / 75-76	3.43	4.70	5.32	0.93	0.815	25	-	-	472-0075-0000
- / 80	3.62	4.55	4.72	0.94	0.865	-	25	-	472-0080-0000
3.5 / 89-90	4.00	4.20	3.25	1.02	0.960	25	-	-	472-0090-0000
4 / 100-102	4.41	2.85	2.95	1.10	0.780	25	-	-	472-0100-0000
- / 110	4.80	2.70	2.51	1 1/8	0.845	-	12.5 25	-	472-0110-0000
4.5 / 114-115	5.00	2.60	2.36	1.24	0.880	12.5 25	-	-	472-0115-0000
4.72 / 120	5.20	2.55	2.21	1.25	0.920	-	12.5 25	-	472-0120-0000
5 / 125-127	5.39	2.45	2.07	1.32	0.960	12.5 25	-	-	472-0125-0000
- / 130	5.59	2.40	1.77	1.34	0.995	12.5 25	-	-	472-0130-0000
5.5 / 140	6.00	2.30	1.48	1.42	1.070	12.5 25	-	-	472-0140-0000
6 / 150-152	6.38	1.60	1.18	1.50	0.805	12.5 25	-	-	472-0150-0000
6.3 / 160	6.77	1.50	1.03	1.57	0.855	-	12.5 25	-	472-0160-0000
6.5 / 165	6.97	1.45	1.03	1.61	0.880	12.5 25	-	-	472-0165-0000
- / 170	7.17	1.45	1.03	1.65	0.905	-	12.5 25	-	472-0170-0000
- / 175	7.36	1.45	0.89	1.71	0.935	12.5 25	-	-	472-0175-0000
7 / 178-180	7.56	1.40	0.89	1.73	0.955	12.5 25	-	-	472-0180-0000
8 / 200-203	8.35	1.30	0.74	1.89	1.060	12.5 25	-	-	472-0200-0000
- / 215	8.94	1.25	0.59	2.03	1.135	12.5 25	-	-	472-0215-0000
- / 225	9.33	1.25	0.59	2.11	1.175	-	12.5 25	-	472-0225-0000
9 / 228-229	9.45	1.25	0.59	2.13	1.195	12.5 25	-	-	472-0228-0000
- / 250	10.31	0.95	0.59	2.28	1.315	-	12.5 25	-	472-0250-0000
10 / 254	10.47	0.95	0.59	2.32	1.335	12.5 25	-	-	472-0254-0000
- / 275	11.30	0.85	0.44	2.50	1.445	12.5 25	-	-	472-0275-0000
11 / 280	11.50	0.85	0.44	2.54	1.470	12.5 25	-	-	472-0280-0000
- / 300	12.28	0.80	0.30	2.68	1.570	-	12.5 25	-	472-0300-0000

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

I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Production Length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	ft	
12 / 305	12.48	0.80	0.30	2.72	1.600	12.5 25	-	-	472-0305-0000
- / 315	12.87	0.80	0.30	2.78	1.655	12.5 25	-	-	472-0315-0000
- / 325	13.27	0.80	0.30	2.89	1.700	12.5 25	-	-	472-0325-0000
13 / 330	13.46	0.75	0.30	2.93	1.725	12.5 25	-	-	472-0330-0000
- / 350	14.25	0.60	0.30	3.07	1.830	-	12.5 25	-	472-0350-0000
14 / 356	14.49	0.60	0.30	3.11	1.860	12.5 25	-	-	472-0356-0000
- / 375	15.24	0.60	0.30	3.25	1.955	12.5 25	-	-	472-0375-0000
- / 400	16.22	0.60	0.30	3.46	2.085	-	12.5 25	-	472-0400-0000
16 / 405-406	16.46	0.60	0.30	3.50	2.115	12.5 25	-	-	472-0406-0000
- / 450	18.19	0.50	0.15	3.86	2.345	-	12.5 25	-	472-0450-0000
18 / 457	18.46	0.50	0.15	3.92	2.380	12.5 25	-	-	472-0457-0000
- / 500	20.16	0.45	0.15	4.25	2.600	-	12.5 25	-	472-0500-0000
20 / 508	20.47	0.35	0.15	4.31	2.640	12.5 25	-	-	472-0508-0000
- / 600	24.09	0.30	0.15	5.04	3.110	-	12.5	-	472-0600-0000
24 / 610	24.49	0.30	0.15	5.12	3.160	-	12.5	-	472-0610-0000
- / 700	28.00	0.20	0.06	5.83	3.620	-	12.5	-	472-0700-0000
28 / 712	28.50	0.20	0.06	5.93	3.685	-	12.5	-	472-0712-0000
- / 750	30.00	0.20	0.03	6.22	3.885	-	12.5	-	472-0750-0000
- / 800	31.97	0.20	0.03	6.61	4.140	-	12.5	-	472-0800-0000
32 / 813-815	32.56	0.20	0.03	6.73	4.215	-	12.5	-	472-0815-0000
- / 900	35.91	0.20	0.03	7.40	4.650	-	12.5	-	472-0900-0000
36 / 915	36.50	0.20	0.03	7.52	4.725	-	12.5	-	472-0915-0000
- / 1000	39.84	0.20	0.03	8.19	5.160	-	12.5	-	472-1000-0000
40 / 1016	40.47	0.15	0.03	8.31	5.240	-	12.5	-	472-1016-0000

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Accessories



CLAMP 212



CLAMP 217



CLAMP 213



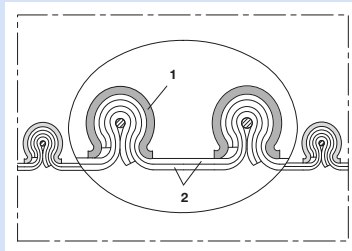
CONNECT 228



CONNECT 270-271

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Electrically conductive clamp profile hose (clip hose), double-layer, highly chemical resistant (up to +338°F)

**Applications**

- flexible hose/ ducting for hot and cold gases and for dust, powder, fibers
- chemical industry: chemical vapors, vapor return hose at loading arm, paint steam, spray mist extraction
- explosion hazard area

**Properties**

- abrasion protection via external clamp profile
- secure clamping of the wall within the clamp profile
- highly flexible + compressible 4:1

- very good heat resistance
- anti-adhesive
- good resistance to alkalis and acids
- extremely good resistance to chemicals
- surface resistance PTFE film <math>10^6 \Omega</math>
- in accordance with ATEX 2014/34/EU (1999/92/EC) and German TRGS 727: 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**

- 40°F to 340°F

**Design, material**

CP construction

- clamp profile supporting spiral: all-stainless steel (INOX)
- wall: semi-conducting PTFE film interior, CSM coated polyester fabric exterior

**Delivery variants**

- further diameters and lengths available on request

I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Production Length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	ft	
2 / 50-51	2.44	5.95	8.86	0.71	0.565	25	-	-	472-0050-1003
- / 55	2.64	5.65	8.27	3/4	0.610	25	-	-	472-0055-1003
2.36 / 60	2.83	5.35	7.38	0.79	0.665	-	25	-	472-0060-1003
2.5 / 63-65	3.03	5.15	6.79	0.85	0.710	25	-	-	472-0065-1003
- / 70	3.20	4.95	6.20	7/8	0.760	25	-	-	472-0070-1003
3 / 75-76	3.43	4.70	5.32	0.93	0.815	25	-	-	472-0075-1003
- / 80	3.62	4.55	4.72	0.94	0.865	-	25	-	472-0080-1003
3.5 / 89-90	4.00	4.20	3.25	1.02	0.960	25	-	-	472-0090-1003
4 / 100-102	4.41	2.85	2.95	1.10	0.780	25	-	-	472-0100-1003
- / 110	4.80	2.70	2.51	1 1/8	0.845	-	12.5 25	-	472-0110-1003
4.5 / 114-115	5.00	2.60	2.36	1.24	0.880	12.5 25	-	-	472-0115-1003
4.72 / 120	5.20	2.55	2.21	1.25	0.920	-	12.5 25	-	472-0120-1003
5 / 125-127	5.39	2.45	2.07	1.32	0.960	12.5 25	-	-	472-0125-1003
- / 130	5.59	2.40	1.77	1.34	0.995	12.5 25	-	-	472-0130-1003
5.5 / 140	6.00	2.30	1.48	1.42	1.070	12.5 25	-	-	472-0140-1003
6 / 150-152	6.38	1.60	1.18	1.50	0.800	12.5 25	-	-	472-0150-1003
6.3 / 160	6.77	1.50	1.03	1.57	0.855	-	12.5 25	-	472-0160-1003
6.5 / 165	6.97	1.45	1.03	1.61	0.880	12.5 25	-	-	472-0165-1003
- / 170	7.17	1.45	1.03	1.65	0.905	-	12.5 25	-	472-0170-1003
- / 175	7.36	1.45	0.89	1.71	0.925	12.5 25	-	-	472-0175-1003
7 / 178-180	7.56	1.40	0.89	1.73	0.955	12.5 25	-	-	472-0180-1003
8 / 200-203	8.35	1.30	0.74	1.89	1.060	12.5 25	-	-	472-0200-1003
- / 215	8.94	1.25	0.59	2.03	1.135	12.5 25	-	-	472-0215-1003
- / 225	9.33	1.25	0.59	2.11	1.190	-	12.5 25	-	472-0225-1003
9 / 228-229	9.45	1.25	0.59	2.13	1.205	12.5 25	-	-	472-0228-1003
- / 250	10.31	0.95	0.59	2.28	1.315	-	12.5 25	-	472-0250-1003
10 / 254	10.47	0.95	0.59	2.32	1.335	12.5 25	-	-	472-0254-1003
- / 275	11.30	0.85	0.44	2.50	1.445	12.5 25	-	-	472-0275-1003
11 / 280	11.50	0.85	0.44	2.54	1.470	12.5 25	-	-	472-0280-1003

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I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Production Length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	ft	
- / 300	12.28	0.80	0.30	2.68	1.570	-	12.5 25	-	472-0300-1003
12 / 305	12.48	0.80	0.30	2.72	1.600	<b>12.5 25</b>	-	-	472-0305-1003
- / 315	12.87	0.80	0.30	2.78	1.655	<b>12.5 25</b>	-	-	472-0315-1003
- / 325	13.27	0.80	0.30	2.89	1.700	<b>12.5 25</b>	-	-	472-0325-1003
13 / 330	13.46	0.75	0.30	2.93	1.725	<b>12.5 25</b>	-	-	472-0330-1003
- / 350	14.25	0.60	0.30	3.07	1.830	-	12.5 25	-	472-0350-1003
14 / 356	14.49	0.60	0.30	3.11	1.860	<b>12.5 25</b>	-	-	472-0356-1003
- / 375	15.24	0.60	0.30	3.25	1.955	<b>12.5 25</b>	-	-	472-0375-1003
- / 400	16.22	0.60	0.30	3.46	2.085	-	12.5 25	-	472-0400-1003
16 / 405-406	16.46	0.60	0.30	3.50	2.145	<b>12.5 25</b>	-	-	472-0406-1003
- / 450	18.19	0.50	0.15	3.86	2.600	-	12.5 25	-	472-0450-1003
18 / 457	18.46	0.50	0.15	3.92	2.600	<b>12.5 25</b>	-	-	472-0457-1003
- / 500	20.16	0.45	0.15	4.25	2.600	-	12.5 25	-	472-0500-1003
20 / 508	20.47	0.35	0.15	4.31	2.640	<b>12.5 25</b>	-	-	472-0508-1003
- / 600	24.09	0.30	0.15	5.04	3.110	-	12.5	-	472-0600-1003
24 / 610	24.49	0.30	0.15	5.12	3.160	-	12.5	-	472-0610-1003
- / 700	28.00	0.20	0.06	5.83	3.620	-	12.5	-	472-0700-1003
28 / 712	28.50	0.20	0.03	5.93	3.680	-	12.5	-	472-0712-1003
- / 750	30.00	0.20	0.03	6.22	3.865	-	12.5	-	472-0750-1003
- / 800	31.97	0.20	0.03	6.61	4.140	-	12.5	-	472-0800-1003
32 / 813-815	32.56	0.20	0.03	6.73	4.215	-	12.5	-	472-0815-1003
- / 900	35.91	0.20	0.03	7.40	4.650	-	12.5	-	472-0900-1003
36 / 915	36.50	0.20	0.03	7.52	4.725	-	12.5	-	472-0915-1003
- / 1000	39.84	0.20	0.03	8.19	5.160	-	12.5	-	472-1000-1003
40 / 1016	40.47	0.15	0.03	8.31	5.240	-	12.5	-	472-1016-1003

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## Accessories



CLAMP 212



CLAMP 217



CLAMP 213

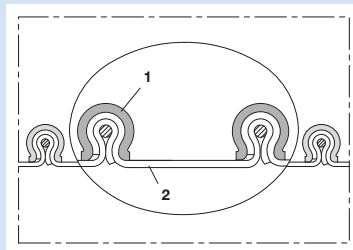


CONNECT 228



CONNECT 270-271

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Electrically conductive clamp profile hose (clip hose), (up to +410°F)

**Applications**

- flexible hose/ ducting for hot and cold gases and for dust, powder, fibers
- chemical industry: chemical vapors, vapor return hose at loading arm, paint steam, spray mist extraction
- explosion hazard area
- bellows, compensators

**Properties**

- abrasion protection via external clamp profile
- secure clamping of the wall within the clamp profile

- highly flexible + compressible 4:1
- very good heat resistance
- good resistance to oil, gasoline, and chemicals
- good resistance to alkalis and acids
- electrically conductive wall: electrical and surface resistance <math><10^4 \Omega</math>
- in accordance with ATEX 2014/34/EU (1999/92/EC) and German TRGS 727: 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**

- 5°F to 410°F

**Design, material**

CP construction

- clamp profile supporting spiral: galvanized steel
- wall: VITON® coated polyester fabric

**Delivery variants**

- further diameters and lengths available on request

I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Production Length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	ft	
1.5 / 38	1.97	11.40	13.29	0.83	0.325	25	-	-	459-0038-0000
- / 40	2.05	11.10	12.99	7/8	0.355	-	25	-	459-0040-0000
2 / 50-51	2.44	9.15	11.22	1.00	0.430	25	-	-	459-0050-0000
- / 55	2.64	8.70	10.34	1.04	0.470	25	-	-	459-0055-0000
2.36 / 60	2.83	8.25	9.45	1.10	0.510	-	25	-	459-0060-0000
2.5 / 63-65	3.03	7.90	8.56	1.16	0.545	25	-	-	459-0065-0000
- / 70	3.20	7.60	7.68	1.22	0.585	25	-	-	459-0070-0000
3 / 75-76	3.43	7.25	6.79	1.28	0.625	25	-	-	459-0075-0000
- / 80	3.62	7.05	5.91	1.34	0.660	-	25	-	459-0080-0000
3.5 / 89-90	4.00	6.55	4.13	1.46	0.740	25	-	-	459-0090-0000
4 / 100-102	4.41	4.35	3.54	1.10	0.605	25	-	-	459-0100-0000
- / 110	4.80	4.15	3.10	1 1/8	0.660	-	12.5 25	-	459-0110-0000
4.5 / 114-115	5.00	4.00	2.86	1.24	0.690	12.5 25	-	-	459-0115-0000
4.72 / 120	5.20	3.90	2.66	1.25	0.720	-	12.5 25	-	459-0120-0000
5 / 125-127	5.39	3.75	2.51	1.32	0.745	12.5 25	-	-	459-0125-0000
- / 130	5.59	3.70	2.21	1.34	0.775	12.5 25	-	-	459-0130-0000
5.5 / 140	6.00	3.55	1.77	1.42	0.825	12.5 25	-	-	459-0140-0000
6 / 150-152	6.38	2.40	1.48	1.50	0.590	12.5 25	-	-	459-0150-0000
6.3 / 160	6.77	2.30	1.33	1.57	0.625	-	12.5 25	-	459-0160-0000
6.5 / 165	6.97	2.25	1.33	1.61	0.645	12.5 25	-	-	459-0165-0000
- / 170	7.17	2.25	1.18	1.65	0.665	-	12.5 25	-	459-0170-0000
- / 175	7.36	2.20	1.18	1.71	0.685	12.5 25	-	-	459-0175-0000
7 / 178-180	7.56	2.20	1.18	1.73	0.700	12.5 25	-	-	459-0180-0000
8 / 200-203	8.35	2.05	0.89	1.89	0.780	12.5 25	-	-	459-0200-0000
- / 215	8.94	1.95	0.89	2.03	0.835	12.5 25	-	-	459-0215-0000
- / 225	9.33	1.90	0.74	2.11	0.875	-	12.5 25	-	459-0225-0000
9 / 228-229	9.45	1.75	0.74	2.13	0.885	12.5 25	-	-	459-0228-0000
- / 250	10.31	1.45	0.74	2.28	0.970	-	12.5 25	-	459-0250-0000
10 / 254	10.47	1.40	0.74	2.32	0.980	12.5 25	-	-	459-0254-0000
- / 275	11.30	1.30	0.59	2.50	1.060	12.5 25	-	-	459-0275-0000

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



I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Production Length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	ft	
11 / 280	11.50	1.30	0.59	2.54	1.080	<b>12.5 25</b>	-	-	459-0280-0000
- / 300	12.28	1.25	0.44	2.68	1.155	-	12.5 25	-	459-0300-0000
12 / 305	12.48	1.25	0.44	2.72	1.170	<b>12.5 25</b>	-	-	459-0305-0000
- / 315	12.87	1.25	0.44	2.78	1.195	<b>12.5 25</b>	-	-	459-0315-0000
- / 325	13.27	1.15	0.44	2.89	1.245	<b>12.5 25</b>	-	-	459-0325-0000
13 / 330	13.46	1.15	0.44	2.93	1.265	<b>12.5 25</b>	-	-	459-0330-0000
- / 350	14.25	0.95	0.44	3.07	1.345	-	12.5 25	-	459-0350-0000
14 / 356	14.49	0.95	0.44	3.11	1.365	<b>12.5 25</b>	-	-	459-0356-0000
- / 375	15.24	0.85	0.30	3.25	1.430	<b>12.5 25</b>	-	-	459-0375-0000
- / 400	16.22	0.85	0.30	3.46	1.530	-	12.5 25	-	459-0400-0000
16 / 405-406	16.46	0.85	0.30	3.50	1.555	<b>12.5 25</b>	-	-	459-0406-0000
- / 450	18.19	0.80	0.30	3.86	1.720	-	12.5 25	-	459-0450-0000
18 / 457	18.46	0.75	0.30	3.92	1.745	<b>12.5 25</b>	-	-	459-0457-0000
- / 500	20.16	0.75	0.15	4.25	1.910	-	12.5 25	-	459-0500-0000
20 / 508	20.47	0.50	0.15	4.31	1.940	<b>12.5 25</b>	-	-	459-0508-0000
- / 600	24.09	0.45	0.15	5.04	2.285	-	12.5	-	459-0600-0000
24 / 610	24.49	0.45	0.15	5.12	2.320	-	12.5	-	459-0610-0000
- / 700	28.00	0.35	0.06	5.83	2.660	-	12.5	-	459-0700-0000
28 / 712	28.50	0.35	0.06	5.93	2.710	-	12.5	-	459-0712-0000
- / 750	30.00	0.35	0.06	6.22	2.850	-	12.5	-	459-0750-0000
- / 800	31.97	0.35	0.06	6.61	3.035	-	12.5	-	459-0800-0000
32 / 813-815	32.56	0.35	0.03	6.73	3.095	-	12.5	-	459-0815-0000
- / 900	35.91	0.30	0.03	7.40	3.420	-	12.5	-	459-0900-0000
36 / 915	36.50	0.30	0.03	7.52	3.475	-	12.5	-	459-0915-0000
- / 1000	39.84	0.30	0.03	8.19	3.795	-	12.5	-	459-1000-0000
40 / 1016	40.47	0.30	0.03	8.31	3.855	-	12.5	-	459-1016-0000

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

### Accessories



CLAMP 212



CLAMP 217



CLAMP 213

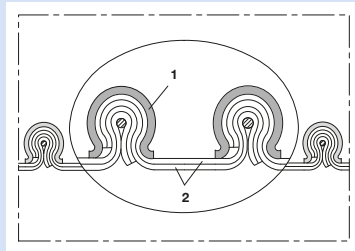


CONNECT 228



CONNECT 270-271

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



Clamp profile hose (clip hose), double-layer, highly chemical resistant (up to +518°F)

**Applications**

- flexible hose/ ducting for hot and cold gases and for dust, powder, fibers
- chemical industry: chemical vapors, vapor return hose at loading arm, paint steam, spray mist extraction

**Properties**

- abrasion protection via external clamp profile
- secure clamping of the wall within the clamp profile
- highly flexible + compressible 4:1

- very good heat resistance
- anti-adhesive
- good resistance to alkalis and acids
- extremely good resistance to chemicals
- conforms to RoHS guideline

**Temperature range**

- 240°F to 480°F
- short time to 520°F

**Design, material**

- CP construction
- clamp profile supporting spiral: all-stainless steel (INOX)
  - double-layer wall; wall: interior PTFE foil, exterior special-coated glass fabric

**Delivery variants**

- further diameters and lengths available on request

I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Production Length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	ft	
2 / 50-51	2.44	5.95	8.86	0.71	0.410	25	-	-	471-0050-0000
- / 55	2.64	5.65	8.27	3/4	0.445	25	-	-	471-0055-0000
2.36 / 60	2.83	5.35	7.38	0.79	0.485	-	25	-	471-0060-0000
2.5 / 63-65	3.03	5.15	6.79	0.85	0.515	25	-	-	471-0065-0000
- / 70	3.20	4.95	6.20	7/8	0.560	25	-	-	471-0070-0000
3 / 75-76	3.43	4.70	5.32	0.93	0.590	25	-	-	471-0075-0000
- / 80	3.62	4.55	4.72	0.94	0.630	-	25	-	471-0080-0000
3.5 / 89-90	4.00	4.20	3.25	1.02	0.705	25	-	-	471-0090-0000
4 / 100-102	4.41	2.85	2.95	1.10	0.580	25	-	-	471-0100-0000
- / 110	4.80	2.70	2.51	1 1/8	0.640	-	12.5 25	-	471-0110-0000
4.5 / 114-115	5.00	2.60	2.36	1.20	0.665	12.5 25	-	-	471-0115-0000
4.72 / 120	5.20	2.55	2.21	1.25	0.690	-	12.5 25	-	471-0120-0000
5 / 125-127	5.39	2.45	2.07	1.32	0.720	12.5 25	-	-	471-0125-0000
- / 130	5.59	2.40	1.77	1.34	0.745	12.5 25	-	-	471-0130-0000
5.5 / 140	6.00	2.30	1.48	1.42	0.800	12.5 25	-	-	471-0140-0000
6 / 150-152	6.38	1.60	1.18	1.50	0.580	12.5 25	-	-	471-0150-0000
6.3 / 160	6.77	1.50	1.03	1.57	0.610	-	12.5 25	-	471-0160-0000
6.5 / 165	6.97	1.45	0.89	1.61	0.630	12.5 25	-	-	471-0165-0000
- / 170	7.17	1.45	0.89	1.65	0.650	-	12.5 25	-	471-0170-0000
- / 175	7.36	1.45	0.89	1.71	0.665	12.5 25	-	-	471-0175-0000
7 / 178-180	7.56	1.40	0.89	1.73	0.685	12.5 25	-	-	471-0180-0000
8 / 200-203	8.35	1.30	0.74	1.89	0.760	12.5 25	-	-	471-0200-0000
- / 215	8.94	1.25	0.59	2.03	0.815	12.5 25	-	-	471-0215-0000
- / 225	9.33	1.25	0.59	2.11	0.855	-	12.5 25	-	471-0225-0000
9 / 228-229	9.45	1.25	0.59	2.13	0.865	12.5 25	-	-	471-0228-0000
- / 250	10.31	0.95	0.59	2.28	0.940	-	12.5 25	-	471-0250-0000
10 / 254	10.47	0.95	0.59	2.32	0.955	12.5 25	-	-	471-0254-0000
- / 275	11.30	0.85	0.44	2.50	1.035	12.5 25	-	-	471-0275-0000
11 / 280	11.50	0.85	0.30	2.54	1.055	12.5 25	-	-	471-0280-0000
- / 300	12.28	0.80	0.30	2.68	1.130	-	12.5 25	-	471-0300-0000

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





I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Production Length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	ft	
12 / 305	12.48	0.80	0.30	2.72	1.150	12.5 25	-	-	471-0305-0000
- / 315	12.87	0.80	0.30	2.78	1.195	12.5 25	-	-	471-0315-0000
- / 325	13.27	0.80	0.30	2.89	1.245	12.5 25	-	-	471-0325-0000
13 / 330	13.46	0.75	0.30	2.93	1.255	12.5 25	-	-	471-0330-0000
- / 350	14.25	0.60	0.30	3.07	1.310	-	12.5 25	-	471-0350-0000
14 / 356	14.49	0.60	0.30	3.11	1.340	12.5 25	-	-	471-0356-0000
- / 375	15.24	0.60	0.30	3.25	1.430	12.5 25	-	-	471-0375-0000
- / 400	16.22	0.60	0.30	3.46	1.500	-	12.5 25	-	471-0400-0000
16 / 405-406	16.46	0.60	0.30	3.50	1.520	12.5 25	-	-	471-0406-0000
- / 450	18.19	0.50	0.15	3.86	1.680	-	12.5 25	-	471-0450-0000
18 / 457	18.46	0.50	0.15	3.92	1.705	12.5 25	-	-	471-0457-0000
- / 500	20.16	0.45	0.15	4.25	1.860	-	12.5 25	-	471-0500-0000
20 / 508	20.47	0.35	0.15	4.31	1.890	12.5 25	-	-	471-0508-0000
- / 600	24.09	0.30	0.15	5.04	2.230	-	12.5	-	471-0600-0000
24 / 610	24.49	0.30	0.15	5.12	2.270	-	12.5	-	471-0610-0000
- / 700	28.00	0.20	0.06	5.83	2.600	-	12.5	-	471-0700-0000
28 / 712	28.50	0.20	0.06	5.93	2.645	-	12.5	-	471-0712-0000
- / 750	30.00	0.20	0.03	6.22	2.790	-	12.5	-	471-0750-0000
- / 800	31.97	0.20	0.03	6.61	2.970	-	12.5	-	471-0800-0000
32 / 813-815	32.56	0.20	0.03	6.73	3.035	-	12.5	-	471-0815-0000
- / 900	35.91	0.20	0.03	7.40	3.405	-	12.5	-	471-0900-0000
36 / 915	36.50	0.20	0.03	7.52	3.450	-	12.5	-	471-0915-0000
- / 1000	39.84	0.20	0.03	8.19	3.705	-	12.5	-	471-1000-0000
40 / 1016	40.47	0.15	0.15	8.31	3.750	-	12.5	-	471-1016-0000

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

Accessories



CLAMP 212



CLAMP 217



CLAMP 213

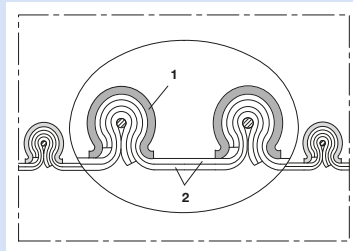


CONNECT 228



CONNECT 270-271

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



Electrically conductive clamp profile hose (clip hose), double-layer, highly chemical resistant (up to +518°F)

**Applications**

- flexible hose/ ducting for hot and cold gases and for dust, powder, fibers
- chemical industry: chemical vapors, vapor return hose at loading arm, paint steam, spray mist extraction
- explosion hazard area

**Properties**

- abrasion protection via external clamp profile
- secure clamping of the wall within the clamp profile
- highly flexible + compressible 4:1
- very good heat resistance

- anti-adhesive
- good resistance to alkalis and acids
- extremely good resistance to chemicals
- surface resistance PTFE film <10<sup>6</sup> Ω
- in accordance with ATEX 2014/34/EU (1999/92/EC) and German TRGS 727: 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**

- 240°F to 480°F
- short time to 520°F

**Design, material**

CP construction

- clamp profile supporting spiral: all-stainless steel (INOX)
- wall: interior semi-conducting PTFE foil, exterior special-coated glass fabric

**Delivery variants**

- further diameters and lengths available on request

I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Production Length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	ft	
2 / 50-51	2.44	5.95	8.86	0.71	0.410	25	-	-	471-0050-1003
- / 55	2.64	5.65	8.27	3/4	0.445	25	-	-	471-0055-1003
2.36 / 60	2.83	5.35	7.38	0.79	0.485	-	25	-	471-0060-1003
2.5 / 63-65	3.03	5.15	6.79	0.85	0.515	25	-	-	471-0065-1003
- / 70	3.20	4.95	6.20	7/8	0.560	25	-	-	471-0070-1003
3 / 75-76	3.43	4.70	5.32	0.93	0.590	25	-	-	471-0075-1003
- / 80	3.62	4.55	4.72	0.94	0.630	-	25	-	471-0080-1003
3.5 / 89-90	4.00	4.20	3.25	1.02	0.705	25	-	-	471-0090-1003
4 / 100-102	4.41	2.85	2.95	1.10	0.580	25	-	-	471-0100-1003
- / 110	4.80	2.70	2.51	1 1/8	0.640	-	12.5 25	-	471-0110-1003
4.5 / 114-115	5.00	2.60	2.36	1.24	0.665	12.5 25	-	-	471-0115-1003
4.72 / 120	5.20	2.55	2.21	1.25	0.690	-	12.5 25	-	471-0120-1003
5 / 125-127	5.39	2.45	2.07	1.32	0.720	12.5 25	-	-	471-0125-1003
- / 130	5.59	2.40	1.77	1.34	0.745	12.5 25	-	-	471-0130-1003
5.5 / 140	6.00	2.30	1.48	1.42	0.800	12.5 25	-	-	471-0140-1003
6 / 150-152	6.38	1.60	1.18	1.50	0.580	12.5 25	-	-	471-0150-1003
6.3 / 160	6.77	1.50	1.03	1.57	0.610	-	12.5 25	-	471-0160-1003
6.5 / 165	6.97	1.45	1.03	1.61	0.630	12.5 25	-	-	471-0165-1003
- / 170	7.17	1.45	0.89	1.65	0.650	-	12.5 25	-	471-0170-1003
- / 175	7.36	1.45	0.89	1.71	0.665	12.5 25	-	-	471-0175-1003
7 / 178-180	7.56	1.40	0.89	1.73	0.685	12.5 25	-	-	471-0180-1003
8 / 200-203	8.35	1.30	0.74	1.89	0.760	12.5 25	-	-	471-0200-1003
- / 215	8.94	1.25	0.59	2.03	0.815	12.5 25	-	-	471-0215-1003
- / 225	9.33	1.25	0.59	2.11	0.855	-	12.5 25	-	471-0225-1003
9 / 228-229	9.45	1.25	0.59	2.13	0.865	12.5 25	-	-	471-0228-1003
- / 250	10.31	0.95	0.59	2.28	0.940	-	12.5 25	-	471-0250-1003
10 / 254	10.47	0.95	0.59	2.32	0.955	12.5 25	-	-	471-0254-1003
- / 275	11.30	0.85	0.44	2.50	1.035	12.5 25	-	-	471-0275-1003
11 / 280	11.50	0.85	0.44	2.54	1.055	12.5 25	-	-	471-0280-1003

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. Additional information at [www.norres.com](http://www.norres.com). NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only.



I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Production Length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	ft	
- / 300	12.28	0.80	0.30	2.68	1.130	-	12.5 25	-	471-0300-1003
12 / 305	12.48	0.80	0.30	2.72	1.150	<b>12.5 25</b>	-	-	471-0305-1003
- / 315	12.87	0.80	0.30	2.78	1.195	<b>12.5 25</b>	-	-	471-0315-1003
- / 325	13.27	0.80	0.30	2.89	1.245	<b>12.5 25</b>	-	-	471-0325-1003
13 / 330	13.46	0.75	0.30	2.93	1.255	<b>12.5 25</b>	-	-	471-0330-1003
- / 350	14.25	0.60	0.30	3.07	1.310	-	12.5 25	-	471-0350-1003
14 / 356	14.49	0.60	0.30	3.11	1.340	<b>12.5 25</b>	-	-	471-0356-1003
- / 375	15.24	0.60	0.30	3.25	1.430	<b>12.5 25</b>	-	-	471-0375-1003
- / 400	16.22	0.60	0.30	3.46	1.500	-	12.5 25	-	471-0400-1003
16 / 405-406	16.46	0.60	0.30	3.50	1.520	<b>12.5 25</b>	-	-	471-0406-1003
- / 450	18.19	0.50	0.15	3.86	1.680	-	12.5 25	-	471-0450-1003
18 / 457	18.46	0.50	0.15	3.92	1.705	<b>12.5 25</b>	-	-	471-0457-1003
- / 500	20.16	0.45	0.15	4.25	1.860	-	12.5 25	-	471-0500-1003
20 / 508	20.47	0.35	0.15	4.31	1.890	<b>12.5 25</b>	-	-	471-0508-1003
- / 600	24.09	0.30	0.15	5.04	2.230	-	12.5	-	471-0600-1003
24 / 610	24.49	0.30	0.15	5.12	2.270	-	12.5	-	471-0610-1003
- / 700	28.00	0.20	0.06	5.83	2.600	-	12.5	-	471-0700-1003
28 / 712	28.50	0.20	0.03	5.93	2.645	-	12.5	-	471-0712-1003
- / 750	30.00	0.20	0.03	6.22	2.790	-	12.5	-	471-0750-1003
- / 800	31.97	0.20	0.03	6.61	2.970	-	12.5	-	471-0800-1003
32 / 813-815	32.56	0.20	0.03	6.73	3.035	-	12.5	-	471-0815-1003
- / 900	35.91	0.20	0.03	7.40	3.405	-	12.5	-	471-0900-1003
36 / 915	36.50	0.20	0.03	7.52	3.450	-	12.5	-	471-0915-1003
- / 1000	39.84	0.20	0.03	8.19	3.705	-	12.5	-	471-1000-1003
40 / 1016	40.47	0.15	0.03	8.31	3.750	-	12.5	-	471-1016-1003

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

Accessories



CLAMP 212



CLAMP 217



CLAMP 213

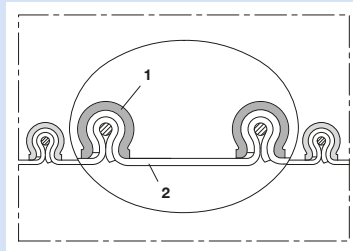


CONNECT 228



CONNECT 270-271

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Clamp profile hose (clip hose), food hose and pharmaceutical hose, highly chemical resistant (up to +518°F)

**Applications**

- flexible hose/ ducting for hot and cold gases and for dust, powder, fibers
- food industry, pharmaceutical industry: food, pharmaceutical
- mixer, dryer, packaging machine, bulk-bag (big bag)-charging and discharging, mill
- extraction arm
- chemical industry: chemical vapors, vapor return hose at loading arm, paint steam, spray mist extraction
- paper mill, paper and pulp industry: waste water, air extraction

- secure clamping of the wall within the clamp profile
- highly flexible + compressible 4:1
- very good heat resistance
- Inside layer food quality complies with: EU-Directive 10/2011 and EC 1935/2004
- food grade wall, complies with: FDA 21 CFR 177.1550, German guideline XV BfR
- odorless and tasteless
- anti-adhesive
- good resistance to alkalis and acids
- extremely good resistance to chemicals
- manufacturing process acc. GMP EC 2023/2006
- conforms to RoHS guideline

**Temperature range**

- 240°F to 480°F
- short time to 520°F

**Design, material**

CP construction

- clamp profile supporting spiral: all-stainless steel (INOX)
- wall: PTFE coated glass fabric

**Delivery variants**

- further diameters and lengths available on request
- double-layer

**Properties**

- abrasion protection via external clamp profile

I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Production Length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	ft	
2 / 50-51	2.44	5.95	7.97	0.71	0.385	25	-	-	475-0050-0000
- / 55	2.64	5.65	7.38	3/4	0.415	25	-	-	475-0055-0000
2.36 / 60	2.83	5.35	6.50	0.79	0.430	-	25	-	475-0060-0000
2.5 / 63-65	3.03	5.15	5.91	0.85	0.485	25	-	-	475-0065-0000
- / 70	3.20	4.95	5.32	7/8	0.515	25	-	-	475-0070-0000
3 / 75-76	3.43	4.70	4.72	0.93	0.550	25	-	-	475-0075-0000
- / 80	3.62	4.55	4.13	0.94	0.590	-	25	-	475-0080-0000
3.5 / 89-90	4.00	4.20	2.95	1.02	0.660	25	-	-	475-0090-0000
4 / 100-102	4.41	2.85	2.51	1.10	0.550	25	-	-	475-0100-0000
- / 110	4.80	2.70	2.21	1 1/8	0.605	-	12.5 25	-	475-0110-0000
4.5 / 114-115	5.00	2.60	2.07	1.24	0.630	12.5 25	-	-	475-0115-0000
4.72 / 120	5.20	2.55	1.92	1.25	0.660	-	12.5 25	-	475-0120-0000
5 / 125-127	5.39	2.45	1.77	1.32	0.685	12.5 25	-	-	475-0125-0000
- / 130	5.59	2.40	1.62	1.34	0.710	12.5 25	-	-	475-0130-0000
5.5 / 140	6.00	2.30	1.18	1.42	0.765	12.5 25	-	-	475-0140-0000
6 / 150-152	6.38	1.60	1.03	1.50	0.510	12.5 25	-	-	475-0150-0000
6.3 / 160	6.77	1.50	0.89	1.57	0.545	-	12.5 25	-	475-0160-0000
6.5 / 165	6.97	1.45	0.89	1.61	0.560	12.5 25	-	-	475-0165-0000
- / 170	7.17	1.45	0.89	1.65	0.570	-	12.5 25	-	475-0170-0000
- / 175	7.36	1.45	0.89	1.71	0.590	12.5 25	-	-	475-0175-0000
7 / 178-180	7.56	1.40	0.74	1.73	0.605	12.5 25	-	-	475-0180-0000
8 / 200-203	8.35	1.30	0.59	1.89	0.670	12.5 25	-	-	475-0200-0000
- / 215	8.94	1.25	0.59	2.03	0.720	12.5 25	-	-	475-0215-0000
- / 225	9.33	1.25	0.59	2.11	0.755	-	12.5 25	-	475-0225-0000
9 / 228-229	9.45	1.25	0.59	2.13	0.765	12.5 25	-	-	475-0228-0000
- / 250	10.31	0.95	0.44	2.28	0.835	-	12.5 25	-	475-0250-0000
10 / 254	10.47	0.95	0.44	2.32	0.845	12.5 25	-	-	475-0254-0000

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I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Production Length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	ft	
- / 275	11.30	0.85	0.44	2.50	0.915	<b>12.5 25</b>	-	-	475-0275-0000
11 / 280	11.50	0.85	0.44	2.54	0.930	<b>12.5 25</b>	-	-	475-0280-0000
- / 300	12.28	0.80	0.30	2.68	0.995	-	12.5 25	-	475-0300-0000
12 / 305	12.48	0.80	0.30	2.72	1.010	<b>12.5 25</b>	-	-	475-0305-0000
- / 315	12.87	0.80	0.30	2.78	1.050	<b>12.5 25</b>	-	-	475-0315-0000
- / 325	13.27	0.80	0.30	2.89	1.110	<b>12.5 25</b>	-	-	475-0325-0000
13 / 330	13.46	0.75	0.30	2.93	1.120	<b>12.5 25</b>	-	-	475-0330-0000
- / 350	14.25	0.60	0.30	3.07	1.165	-	12.5 25	-	475-0350-0000
14 / 356	14.49	0.60	0.30	3.11	1.200	<b>12.5 25</b>	-	-	475-0356-0000
- / 375	15.24	0.60	0.30	3.25	1.310	<b>12.5 25</b>	-	-	475-0375-0000
- / 400	16.22	0.60	0.15	3.46	1.325	-	12.5 25	-	475-0400-0000
16 / 405-406	16.46	0.60	0.15	3.50	1.345	<b>12.5 25</b>	-	-	475-0406-0000
- / 450	18.19	0.50	0.15	3.86	1.485	-	12.5 25	-	475-0450-0000
18 / 457	18.46	0.50	0.15	3.92	1.510	<b>12.5 25</b>	-	-	475-0457-0000
- / 500	20.16	0.45	0.15	4.25	1.645	-	12.5 25	-	475-0500-0000
20 / 508	20.47	0.35	0.15	4.31	1.675	<b>12.5 25</b>	-	-	475-0508-0000
- / 600	24.09	0.30	0.15	5.04	1.975	-	12.5	-	475-0600-0000
24 / 610	24.49	0.30	0.15	5.12	2.010	-	12.5	-	475-0610-0000
- / 700	28.00	0.20	0.06	5.83	2.300	-	12.5	-	475-0700-0000
28 / 712	28.50	0.20	0.03	5.93	2.340	-	12.5	-	475-0712-0000
- / 750	30.00	0.20	0.03	6.22	2.460	-	12.5	-	475-0750-0000
- / 800	31.97	0.20	0.03	6.61	2.625	-	12.5	-	475-0800-0000
32 / 813-815	32.56	0.20	0.03	6.73	2.695	-	12.5	-	475-0815-0000
- / 900	35.91	0.20	0.03	7.40	3.080	-	12.5	-	475-0900-0000
36 / 915	36.50	0.20	0.03	7.52	3.110	-	12.5	-	475-0915-0000
- / 1000	39.84	0.20	0.03	8.19	3.280	-	12.5	-	475-1000-0000
40 / 1016	40.47	0.15	0.03	8.31	3.315	-	12.5	-	475-1016-0000

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Accessories



CLAMP 212



CLAMP 217



CLAMP 213



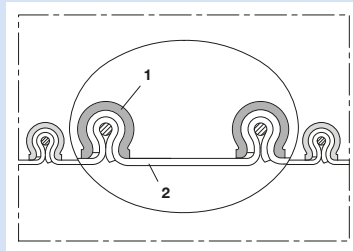
CONNECT 228



CONNECT 270-271

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Electrically conductive clamp profile hose (clip hose), highly chemical resistant (up to +520°F)

**Applications**

- flexible hose/ ducting for hot and cold gases and for dust, powder, fibers
- extraction arm
- chemical industry: chemical vapors, vapor return hose at loading arm, paint steam, spray mist extraction
- explosion hazard area

**Properties**

- abrasion protection via external clamp profile
- secure clamping of the wall within the clamp profile
- highly flexible + compressible 4:1
- very good heat resistance

- anti-adhesive
- good resistance to alkalis and acids
- extremely good resistance to chemicals
- surface resistance PTFE film <10<sup>8</sup> Ω
- in accordance with ATEX 2014/34/EU (1999/92/EC) and German TRGS 727: 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**

- 240°F to 480°F
- short time to 520°F

**Design, material**

CP construction

- clamp profile supporting spiral: all-stainless steel (INOX)
- wall: PTFE coated glass fabric

**Delivery variants**

- further diameters and lengths available on request
- black (standard)
- double-layer

I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Production Length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	ft	
2 / 50-51	2.44	5.95	7.97	0.71	0.385	25	-	-	475-0050-1003
- / 55	2.64	5.65	7.38	3/4	0.415	25	-	-	475-0055-1003
2.36 / 60	2.83	5.35	6.50	0.79	0.430	-	25	-	475-0060-1003
2.5 / 63-65	3.03	5.15	5.91	0.85	0.485	25	-	-	475-0065-1003
- / 70	3.20	4.95	5.32	7/8	0.515	25	-	-	475-0070-1003
3 / 75-76	3.43	4.70	4.72	0.93	0.550	25	-	-	475-0075-1003
- / 80	3.62	4.55	4.13	0.94	0.590	-	25	-	475-0080-1003
3.5 / 89-90	4.00	4.20	2.95	1.02	0.660	25	-	-	475-0090-1003
4 / 100-102	4.41	2.85	2.51	1.10	0.550	25	-	-	475-0100-1003
- / 110	4.80	2.70	2.21	1 1/8	0.605	-	12.5 25	-	475-0110-1003
4.5 / 114-115	5.00	2.60	2.07	1.20	0.630	12.5 25	-	-	475-0115-1003
4.72 / 120	5.20	2.55	1.92	1.25	0.660	-	12.5 25	-	475-0120-1003
5 / 125-127	5.39	2.45	1.77	1.32	0.685	12.5 25	-	-	475-0125-1003
- / 130	5.59	2.40	1.62	1.34	0.710	12.5 25	-	-	475-0130-1003
5.5 / 140	6.00	2.30	1.18	1.42	0.765	12.5 25	-	-	475-0140-1003
6 / 150-152	6.38	1.60	1.03	1.50	0.510	12.5 25	-	-	475-0150-1003
6.3 / 160	6.77	1.50	0.89	1.57	0.545	-	12.5 25	-	475-0160-1003
6.5 / 165	6.97	1.45	0.89	1.61	0.560	12.5 25	-	-	475-0165-1003
- / 170	7.17	1.45	0.89	1.65	0.570	-	12.5 25	-	475-0170-1003
- / 175	7.36	1.45	0.89	1.71	0.590	12.5 25	-	-	475-0175-1003
7 / 178-180	7.56	1.40	0.74	1.73	0.605	12.5 25	-	-	475-0180-1003
8 / 200-203	8.35	1.30	0.59	1.89	0.670	12.5 25	-	-	475-0200-1003
- / 215	8.94	1.25	0.59	2.03	0.720	12.5 25	-	-	475-0215-1003
- / 225	9.33	1.25	0.59	2.11	0.755	-	12.5 25	-	475-0225-1003
9 / 228-229	9.45	1.25	0.59	2.13	0.765	12.5 25	-	-	475-0228-1003
- / 250	10.31	0.95	0.44	2.28	0.835	-	12.5 25	-	475-0250-1003
10 / 254	10.47	0.95	0.44	2.32	0.845	12.5 25	-	-	475-0254-1003
- / 275	11.30	0.85	0.44	2.50	0.915	12.5 25	-	-	475-0275-1003

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. Additional information at [www.norres.com](http://www.norres.com). NORRES reserves the right to modify technical data at any time. Technical data based on tests at 68°F and are approx. values. Proper use and maintenance of NORRES hoses is the sole responsibility of purchaser and ultimate user of the product. The individual conditions, applications and the number of variables make firm recommendations technically impossible. This information is intended as a general guide only.



I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Production Length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	ft	
11 / 280	11.50	0.85	0.44	2.54	0.930	<b>12.5 25</b>	-	-	475-0280-1003
- / 300	12.28	0.80	0.30	2.68	0.995	-	12.5 25	-	475-0300-1003
12 / 305	12.48	0.80	0.30	2.72	1.010	<b>12.5 25</b>	-	-	475-0305-1003
- / 315	12.87	0.80	0.30	2.78	1.050	<b>12.5 25</b>	-	-	475-0315-1003
- / 325	13.27	0.80	0.30	2.89	1.110	<b>12.5 25</b>	-	-	475-0325-1003
13 / 330	13.46	0.75	0.30	2.93	1.120	<b>12.5 25</b>	-	-	475-0330-1003
- / 350	14.25	0.60	0.30	3.07	1.165	-	12.5 25	-	475-0350-1003
14 / 356	14.49	0.60	0.30	3.11	1.200	<b>12.5 25</b>	-	-	475-0356-1003
- / 375	15.24	0.60	0.30	3.25	1.310	<b>12.5 25</b>	-	-	475-0375-1003
- / 400	16.22	0.60	0.15	3.46	1.325	-	12.5 25	-	475-0400-1003
16 / 405-406	16.46	0.60	0.15	3.50	1.345	<b>12.5 25</b>	-	-	475-0406-1003
- / 450	18.19	0.50	0.15	3.86	1.485	-	12.5 25	-	475-0450-1003
18 / 457	18.46	0.50	0.15	3.92	1.510	<b>12.5 25</b>	-	-	475-0457-1003
- / 500	20.16	0.45	0.15	4.25	1.645	-	12.5 25	-	475-0500-1003
20 / 508	20.47	0.35	0.15	4.31	1.675	<b>12.5 25</b>	-	-	475-0508-1003
- / 600	24.09	0.30	0.15	5.04	1.975	-	12.5	-	475-0600-1003
24 / 610	24.49	0.30	0.15	5.12	2.010	-	12.5	-	475-0610-1003
- / 700	28.00	0.20	0.06	5.83	2.300	-	12.5	-	475-0700-1003
28 / 712	28.50	0.20	0.03	5.93	2.340	-	12.5	-	475-0712-1003
- / 750	30.00	0.20	0.03	6.22	2.460	-	12.5	-	475-0750-1003
- / 800	31.97	0.20	0.03	6.61	2.625	-	12.5	-	475-0800-1003
32 / 813-815	32.56	0.20	0.03	6.73	2.695	-	12.5	-	475-0815-1003
- / 900	35.91	0.20	0.03	7.40	3.080	-	12.5	-	475-0900-1003
36 / 915	36.50	0.20	0.03	7.52	3.110	-	12.5	-	475-0915-1003
- / 1000	39.84	0.20	0.03	8.19	3.280	-	12.5	-	475-1000-1003
40 / 1016	40.47	0.15	0.03	8.31	3.315	-	12.5	-	475-1016-1003

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/](http://www.norres.com/us/technology-us/)

Accessories



CLAMP 212



CLAMP 217



CLAMP 213

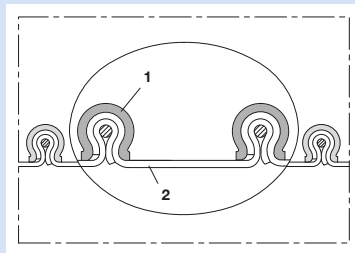
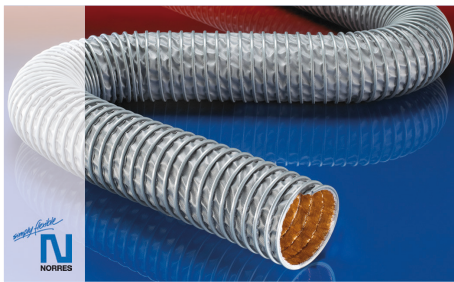


CONNECT 228



CONNECT 270-271

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High-temperature hose, clamp profile hose (clip hose), (up to +752°F)

**Applications**

- flexible hose/ ducting for hot and cold gases
- vehicle/ car gas exhaust system, gas extraction: hose reel, slotted floor channel, underfloor extraction system
- engine test bench, exhaust gas measurement
- chemical industry: chemical vapors, vapor return hose at loading arm, paint steam, spray mist extraction
- high temperature extraction: oven, foundry, furnace, smelting, ceramics industry, glass industry, steel plant, aluminium mill
- bellows, compensators

**Properties**

- abrasion protection via external clamp profile
- secure clamping of the wall within the clamp profile
- highly flexible + compressible 4:1
- very good heat resistance
- good resistance to alkalis and acids
- extremely good resistance to chemicals
- conforms to RoHS guideline

**Temperature range**

- 75°F to 750°F

**Design, material**

CP construction

- clamp profile supporting spiral: galvanized steel
- wall: Kapton® laminated glass fabric

**Delivery variants**

- further diameters and lengths available on request
- stainless steel (INOX) clamp profile

I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Production Length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	ft	
2 / 50-51	2.44	7.55	10.93	0.71	0.455	25	-	-	476-0050-0000
- / 55	2.64	7.20	10.04	3/4	0.495	25	-	-	476-0055-0000
2.36 / 60	2.83	6.90	9.15	0.79	0.540	-	25	-	476-0060-0000
2.5 / 63-65	3.03	6.60	8.42	0.85	0.580	25	-	-	476-0065-0000
- / 70	3.20	6.30	7.53	7/8	0.620	25	-	-	476-0070-0000
3 / 75-76	3.43	6.00	6.64	0.93	0.660	25	-	-	476-0075-0000
- / 80	3.62	5.80	6.20	0.94	0.700	-	25	-	476-0080-0000
3.5 / 89-90	4.00	5.35	5.76	1.02	0.780	25	-	-	476-0090-0000
4 / 100-102	4.41	3.65	4.72	1.10	0.640	25	-	-	476-0100-0000
- / 110	4.80	3.40	3.84	1 1/8	0.700	-	12.5 25	-	476-0110-0000
4.5 / 114-115	5.00	3.35	3.54	1.24	0.730	12.5 25	-	-	476-0115-0000
4.72 / 120	5.20	3.25	3.34	1.25	0.760	-	12.5 25	-	476-0120-0000
5 / 125-127	5.39	3.10	3.10	1.32	0.795	12.5 25	-	-	476-0125-0000
- / 130	5.59	3.05	2.66	1.34	0.820	12.5 25	-	-	476-0130-0000
5.5 / 140	6.00	2.90	2.21	1.42	0.880	12.5 25	-	-	476-0140-0000
6 / 150-152	6.38	2.05	2.07	1.50	0.640	12.5 25	-	-	476-0150-0000
6.3 / 160	6.77	1.95	1.65	1.57	0.680	-	12.5 25	-	476-0160-0000
6.5 / 165	6.97	1.90	1.65	1.61	0.700	12.5 25	-	-	476-0165-0000
- / 170	7.17	1.90	1.65	1.65	0.720	-	12.5 25	-	476-0170-0000
- / 175	7.36	1.80	1.42	1.71	0.740	12.5 25	-	-	476-0175-0000
7 / 178-180	7.56	1.80	1.42	1.73	0.760	12.5 25	-	-	476-0180-0000
8 / 200-203	8.35	1.65	1.18	1.89	0.840	12.5 25	-	-	476-0200-0000
- / 215	8.94	1.60	0.94	2.03	0.900	12.5 25	-	-	476-0215-0000
- / 225	9.33	1.50	0.94	2.11	0.940	-	12.5 25	-	476-0225-0000
9 / 228-229	9.45	1.50	0.89	2.13	0.955	12.5 25	-	-	476-0228-0000
- / 250	10.31	1.15	0.80	2.28	1.050	-	12.5 25	-	476-0250-0000
10 / 254	10.47	1.15	0.74	2.32	1.065	12.5 25	-	-	476-0254-0000
- / 275	11.30	1.10	0.59	2.50	1.150	12.5 25	-	-	476-0275-0000
11 / 280	11.50	1.10	0.59	2.54	1.170	12.5 25	-	-	476-0280-0000

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

I.D.	O.D.	Pressure	Vacuum	Bending Radius	Weight	Stock length	Production Length	Further production lengths	Order No.
in / mm	in	psi	inHG	in	lbs./ft	ft	ft	ft	
- / 300	12.28	1.00	0.47	2.68	1.250	-	12.5 25	-	476-0300-0000
12 / 305	12.48	1.00	0.47	2.72	1.270	<b>12.5 25</b>	-	-	476-0305-0000
- / 315	12.87	1.00	0.47	2.78	1.310	<b>12.5 25</b>	-	-	476-0315-0000
- / 325	13.27	0.95	0.44	2.89	1.365	<b>12.5 25</b>	-	-	476-0325-0000
13 / 330	13.46	0.95	0.44	2.93	1.380	<b>12.5 25</b>	-	-	476-0330-0000
- / 350	14.25	0.80	0.44	3.07	1.450	-	12.5 25	-	476-0350-0000
14 / 356	14.49	0.75	0.44	3.11	1.470	<b>12.5 25</b>	-	-	476-0356-0000
- / 375	15.24	0.75	0.35	3.25	1.520	<b>12.5 25</b>	-	-	476-0375-0000
- / 400	16.22	0.75	0.35	3.46	1.660	-	12.5 25	-	476-0400-0000
16 / 405-406	16.46	0.75	0.35	3.50	1.685	<b>12.5 25</b>	-	-	476-0406-0000
- / 450	18.19	0.65	0.15	3.86	1.860	-	12.5 25	-	476-0450-0000
18 / 457	18.46	0.65	0.15	3.92	1.890	<b>12.5 25</b>	-	-	476-0457-0000
- / 500	20.16	0.60	0.15	4.25	2.065	-	12.5 25	-	476-0500-0000
20 / 508	20.47	0.45	0.15	4.31	2.095	<b>12.5 25</b>	-	-	476-0508-0000
- / 600	24.09	0.35	0.15	5.04	2.475	-	12.5	-	476-0600-0000
24 / 610	24.49	0.35	0.15	5.12	2.515	-	12.5	-	476-0610-0000
- / 700	28.00	0.30	0.06	5.83	2.885	-	12.5	-	476-0700-0000
28 / 712	28.50	0.30	0.06	5.93	2.935	-	12.5	-	476-0712-0000
- / 750	30.00	0.30	0.03	6.22	3.090	-	12.5	-	476-0750-0000
- / 800	31.97	0.30	0.03	6.61	3.295	-	12.5	-	476-0800-0000
32 / 813-815	32.56	0.30	0.03	6.73	3.355	-	12.5	-	476-0815-0000
- / 900	35.91	0.30	0.03	7.40	3.695	-	12.5	-	476-0900-0000
36 / 915	36.50	0.20	0.03	7.52	3.755	-	12.5	-	476-0915-0000
- / 1000	39.84	0.20	0.03	8.19	4.105	-	12.5	-	476-1000-0000
40 / 1016	40.47	0.20	0.03	8.31	4.175	-	12.5	-	476-1016-0000

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### Accessories



CLAMP 212



CLAMP 217



CLAMP 213



CONNECT 228



CONNECT 270-271

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