



NORRES INDUSTRIAL HOSES

EXHAUST GAS EXTRACTION



Vehicle exhaust gas extraction system: Hose reel, floorgrid and underfloor extraction system

Recommended by NORRES customers:

PROTAPE® TPE 326 MEMORY

Proven Alternatives:

PROTAPE® TPE 325 WEAR STRIP

CP HYP 450 PROTECT

CP ARAMID 461 PROTECT

CP HiTex 481



Engine test bench, exhaust gas measurement

Recommended by NORRES customers:

CP HiTex 481

CP Kapton® 476

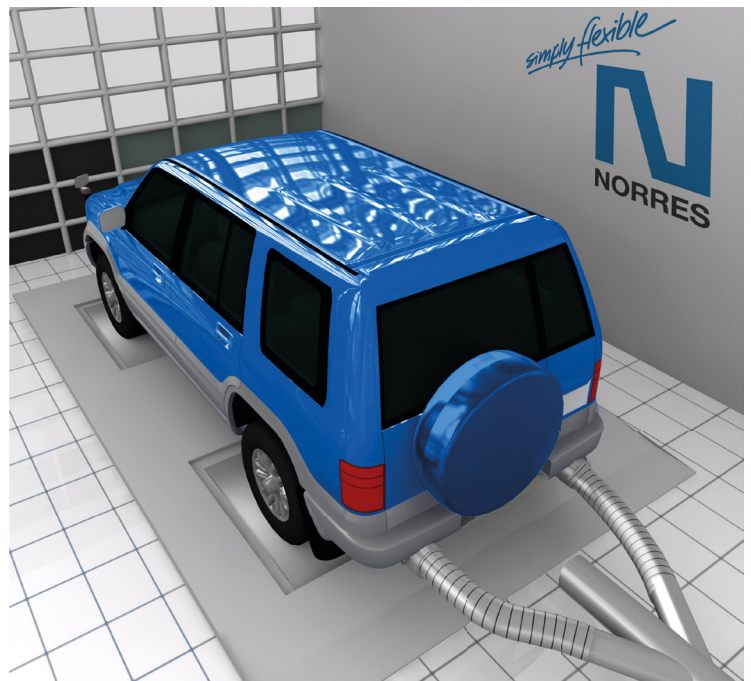
CP HiTex 486

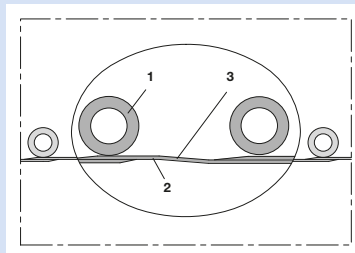
CP HiTex 483

Proven Alternatives:

CP HiTex 485

CP HiTex 487





Crush resistant exhaust gas hose

Applications

- flexible hose/ ducting for hot gases
- vehicle gas exhaust system, car gas extraction: hose reel, slotted floor channel, underfloor extraction system
- engine test bench, exhaust gas measurement

Properties

- fabric reinforced
- highly flexible + compressible
- protected, flow-optimizing exterior folds
- vibration resistant

- crush resistant
- good resistance to chemicals
- conforms to RoHS guideline

Temperature Range

- exhaust gas temperatures to 200°C *
- * when correctly applied with exhaust gas funnels and sufficient fresh air supply (50% approx.).

Design, Material

- patented PROTAPE® tape hose
- 1. special plastic-profile supporting spiral

- 2. fabric-reinforced tape; wall: EPDM/ PP coated fabric
- 3. wall thickness 0,4 mm approx.

Delivery variants

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

I.D.	O.D.	Under-pressure	Bending Radius	Weight	Dimensions in Stock	Order No.
in / mm	mm	bar	mm	kg/m	m	
2 / 50-51	68	0,400	57	0,380	10 15	326-0051-0000
2,5 / 63-65	80	0,280	70	0,480	10 15	326-0063-0000
3 / 75-76	93	0,170	73	0,540	5 6 7,5 10 12,5 15	326-0076-0000
4 / 100-102	119	0,050	71	0,710	5 6 7,5 10 12,5 15	326-0102-0000
5 / 125-127	144	0,035	89	0,870	5 6 7,5 10 12,5 15	326-0127-0000
6 / 150-152	169	0,030	106	1,040	5 6 7,5 10 12,5 15	326-0152-0000
8 / 200-203	220	0,010	143	1,370	5 6 7,5 10	326-0203-0000

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

Accessories



CLAMP 212



CLAMP 217



CLAMP 213

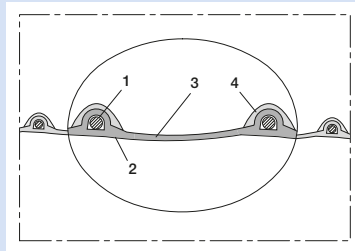
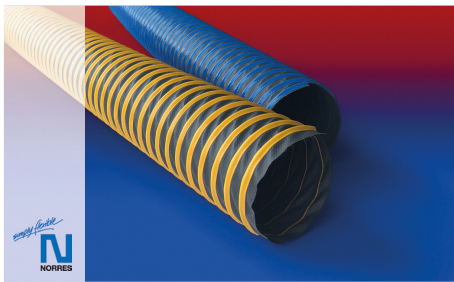


CONNECT 228



CONNECT 270-271

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



Exhaust gas hose

Applications

- flexible hose/ ducting for hot gases
- vehicle gas exhaust system, car gas extraction: hose reel, slotted floor channel, underfloor extraction system
- engine test bench, exhaust gas measurement

Properties

- fabric reinforced
- external abrasion protection via external helix (saves floor space, prolong service life, easy to use)
- highly flexible + compressible

- abrasion-resistant
- vibration resistant
- good resistance to oil, gasoline and chemicals
- flame-retardant wall according to: NF P 92-503 M1
- conforms to RoHS guideline

Temperature Range

- exhaust gas temperatures to 220°C *
- * when correctly applied with exhaust gas funnels and sufficient fresh air supply (50% approx.).

Design, Material

- patented PROTAPE® tape hose
- spring steel wire integrated in wall
 - fabric-reinforced tape
 - wall thickness 0,4 mm approx.
 - abrasion resistant protection profile (wear strip)

Delivery variants

- black (standard)
- special colours: partially coloured (blue, green, red, yellow)

I.D.	O.D.	Over-pressure	Under-pressure	Bending Radius	Weight	Minimum Quantity	Dimensions in Stock	Production Lengths	Order No.
in / mm	mm	bar	bar	mm	kg/m	m	m	m	

partially coloured black; For exhaust gas with a total sulphur <15ppm

3 / 75-76	83,6	2,50	0,035	55	0,480	-	5 10 15	-	325-0076-0001
4 / 100-102	110	1,20	0,025	45	0,660	-	5 10 15	-	325-0102-0001
5 / 125-127	134,5	1,10	0,015	65	0,900	-	5 10 15	-	325-0127-0001
6 / 150-152	160	1,00	0,005	85	1,150	-	5 10 15	-	325-0152-0001
8 / 200-203	210,3	0,50	0,001	125	1,520	-	5 10 15	-	325-0203-0001

partially coloured red; For exhaust gas with a total sulphur <15ppm

3 / 75-76	83,6	2,50	0,035	55	0,480	-	-	5 10 15	325-0076-0221
4 / 100-102	110	1,20	0,025	45	0,660	-	-	5 10 15	325-0102-0221
5 / 125-127	134,5	1,10	0,015	65	0,900	-	-	5 10 15	325-0127-0221
6 / 150-152	160	1,00	0,005	85	1,150	-	-	5 10 15	325-0152-0221
8 / 200-203	210,3	0,50	0,001	125	1,520	-	-	5 10 15	325-0203-0221

partially coloured green; For exhaust gas with a total sulphur <15ppm

3 / 75-76	83,6	2,50	0,035	55	0,480	-	-	5 10 15	325-0076-0063
4 / 100-102	110	1,20	0,025	45	0,660	-	-	5 10 15	325-0102-0063
5 / 125-127	134,5	1,10	0,015	65	0,900	-	-	5 10 15	325-0127-0063
6 / 150-152	160	1,00	0,005	85	1,150	-	-	5 10 15	325-0152-0063
8 / 200-203	210,3	0,50	0,001	125	1,520	-	-	5 10 15	325-0203-0063

partially coloured yellow; For exhaust gas with a total sulphur <15ppm

3 / 75-76	83,6	2,50	0,035	55	0,480	-	-	5 10 15	325-0076-0370
4 / 100-102	110	1,20	0,025	45	0,660	-	-	5 10 15	325-0102-0370
5 / 125-127	134,5	1,10	0,015	65	0,900	-	-	5 10 15	325-0127-0370
6 / 150-152	160	1,00	0,005	85	1,150	-	-	5 10 15	325-0152-0370
8 / 200-203	210,3	0,50	0,001	125	1,520	-	-	5 10 15	325-0203-0370

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



I.D.	O.D.	Over-pressure	Under-pressure	Bending Radius	Weight	Minimum Quantity	Dimensions in Stock	Production Lengths	Order No.
in / mm	mm	bar	bar	mm	kg/m	m	m	m	
partially coloured blue; For exhaust gas with a total sulphur <15ppm									
3 / 75-76	83,6	2,50	0,035	55	0,480	-	-	5 10 15	325-0076-0202
4 / 100-102	110	1,20	0,025	45	0,660	-	-	5 10 15	325-0102-0202
5 / 125-127	134,5	1,10	0,015	65	0,900	-	-	5 10 15	325-0127-0202
6 / 150-152	160	1,00	0,005	85	1,150	-	-	5 10 15	325-0152-0202
8 / 200-203	210,3	0,50	0,001	125	1,520	-	-	5 10 15	325-0203-0202
partially coloured green; For exhaust gas with a higher total sulphur, exhaust gas temperatures to 200°C *									
3 / 75-76	83,6	2,50	0,035	55	0,480	100	-	5 10 15	325-0076-3063
4 / 100-102	110	1,20	0,025	45	0,660	100	-	5 10 15	325-0102-3063
5 / 125-127	134,5	1,10	0,015	65	0,900	80	-	5 10 15	325-0127-3063
6 / 150-152	160	1,00	0,005	85	1,150	80	-	5 10 15	325-0152-3063
8 / 200-203	210,3	0,50	0,001	125	1,520	60	-	5 10 15	325-0203-3063
partially coloured yellow; For exhaust gas with a higher total sulphur, exhaust gas temperatures to 200°C *									
3 / 75-76	83,6	2,50	0,035	55	0,480	100	-	5 10 15	325-0076-3370
4 / 100-102	110	1,20	0,025	45	0,660	100	-	5 10 15	325-0102-3370
5 / 125-127	134,5	1,10	0,015	65	0,900	80	-	5 10 15	325-0127-3370
6 / 150-152	160	1,00	0,005	85	1,150	80	-	5 10 15	325-0152-3370
8 / 200-203	210,3	0,50	0,001	125	1,520	60	-	5 10 15	325-0203-3370
partially coloured red; For exhaust gas with a higher total sulphur, exhaust gas temperatures to 200°C *									
3 / 75-76	83,6	2,50	0,035	55	0,480	100	-	5 10 15	325-0076-3221
4 / 100-102	110	1,20	0,025	45	0,660	100	-	5 10 15	325-0102-3221
5 / 125-127	134,5	1,10	0,015	65	0,900	80	-	5 10 15	325-0127-3221
6 / 150-152	160	1,00	0,005	85	1,150	80	-	5 10 15	325-0152-3221
8 / 200-203	210,3	0,50	0,001	125	1,520	60	-	5 10 15	325-0203-3221
partially coloured blue; For exhaust gas with a higher total sulphur, exhaust gas temperatures to 200°C *									
3 / 75-76	110	1,20	0,025	45	0,660	-	-	5 10 15	325-0076-3202
4 / 100-102	110	1,20	0,025	45	0,660	100	-	5 10 15	325-0102-3202
5 / 125-127	134,5	1,10	0,015	65	0,900	80	-	5 10 15	325-0127-3202
6 / 150-152	160	1,00	0,005	85	1,150	80	-	5 10 15	325-0152-3202
8 / 200-203	210,3	0,50	0,001	125	1,520	60	-	5 10 15	325-0203-3202
partially coloured black; For exhaust gas with a higher total sulphur, exhaust gas temperatures to 200°C *									
3 / 75-76	83,6	2,50	0,035	55	0,480	100	-	5 10 15	325-0076-3001
4 / 100-102	110	1,20	0,025	45	0,660	100	-	5 10 15	325-0102-3001
5 / 125-127	134,5	1,10	0,015	65	0,900	80	-	5 10 15	325-0127-3001
6 / 150-152	160	1,00	0,005	85	1,150	80	-	5 10 15	325-0152-3001
8 / 200-203	210,3	0,50	0,001	125	1,520	60	-	5 10 15	325-0203-3001

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



Accessories



CLAMP 212



CLAMP 213



CLAMP 217

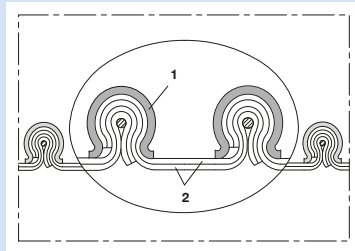
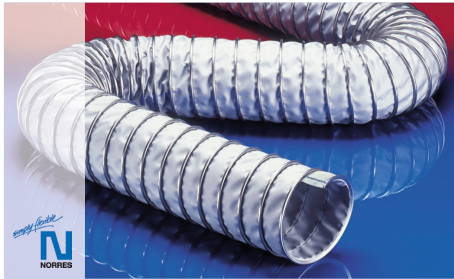


CONNECT 270-271



CONNECT 228

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High-temperature hose, clamp profile hose (clip hose), double-layer (up to +700°C)

Applications

- flexible hose/ ducting for hot and cold gases
- vehicle gas exhaust system, car gas extraction: hose reel, slotted floor channel, underfloor extraction system
- engine test bench, exhaust gas measurement
- high temperature extraction: oven, foundry, furnace, smelting, ceramics industry, glass industry, steel plant, aluminium mill
- bellows, compensators

- abrasion protection via external clamp profile
- secure clamping of the wall within the clamp profile
- very good heat resistance
- flame-retardant according to: DIN 4102-B1
- conforms to RoHS guideline

Temperature Range

- 60°C to 600°C
- short time to 700°C

Design, Material

CP construction

- clamp profile supporting spiral: all-stainless steel (INOX)
- double-layer wall; wall: interior and exterior stainless steel wire reinforced and special coated glass fabric

Delivery variants

- further diameters and lengths available on request

Properties

- very good resistance to flying sparks and welding sparks

I.D.	O.D.	Under-pressure	Bending Radius	Weight	Dimensions in Stock	Order No.
in / mm	mm	bar	mm	kg/m	m	
3 / 75-76	89	0,290	43	1,850	6	481-0075-0000
- / 80	94	0,250	45	1,930	6	481-0080-0000
3,5 / 89-90	104	0,180	49	2,190	6	481-0090-0000
4 / 100-102	114	0,150	53	2,100	6	481-0100-0000
- / 110	124	0,130	57	2,300	3 6	481-0110-0000
4,5 / 114-115	129	0,120	59	2,400	3 6	481-0115-0000
4,72 / 120	134	0,110	61	2,500	3 6	481-0120-0000
5 / 125-127	139	0,100	63	2,600	3 6	481-0125-0000
- / 130	144	0,095	65	2,690	3 6	481-0130-0000
5,5 / 140	154	0,075	69	2,890	3 6	481-0140-0000
6 / 150-152	164	0,060	73	2,110	3 6	481-0150-0000
6,3 / 160	174	0,055	77	2,250	3 6	481-0160-0000
6,5 / 165	179	0,050	79	2,320	3 6	481-0165-0000
- / 170	184	0,050	81	2,380	3 6	481-0170-0000
- / 175	189	0,050	83	2,450	3 6	481-0175-0000
7 / 178-180	194	0,050	85	2,520	3 6	481-0180-0000
8 / 200-203	214	0,040	93	2,790	3 6	481-0200-0000
- / 215	229	0,035	99	2,990	3 6	481-0215-0000
- / 225	239	0,030	103	3,130	3 6	481-0225-0000
9 / 228-229	242	0,030	106	3,250	3 6	481-0228-0000
- / 250	264	0,030	113	3,470	3 6	481-0250-0000
10 / 254	268	0,025	115	3,530	3 6	481-0254-0000
- / 275	289	0,025	123	3,810	3 6	481-0275-0000
11 / 280	294	0,020	125	3,880	3 6	481-0280-0000
- / 300	314	0,020	133	4,140	3 6	481-0300-0000
12 / 305	319	0,020	135	4,210	3 6	481-0305-0000
- / 315	329	0,020	139	4,350	3 6	481-0315-0000
- / 325	339	0,015	143	4,480	3 6	481-0325-0000

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

I.D.	O.D.	Under-pressure	Bending Radius	Weight	Dimensions in Stock	Order No.
in / mm	mm	bar	mm	kg/m	m	
13 / 330	344	0,015	145	4,550	3 6	481-0330-0000
- / 350	364	0,015	153	4,820	3 6	481-0350-0000
14 / 356	370	0,015	156	4,890	3 6	481-0356-0000
- / 375	389	0,015	163	5,100	3 6	481-0375-0000
- / 400	414	0,015	173	5,500	3 6	481-0400-0000
16 / 405-406	420	0,010	176	5,580	3 6	481-0406-0000
- / 450	464	0,010	193	6,170	3 6	481-0450-0000
18 / 457	471	0,010	196	6,270	3 6	481-0457-0000
- / 500	514	0,005	213	6,850	3 6	481-0500-0000
20 / 508	522	0,005	217	6,960	3 6	481-0508-0000
- / 600	614	0,005	253	8,210	3	481-0600-0000
24 / 610	624	0,005	257	8,350	3	481-0610-0000
- / 700	714	0,005	293	9,560	3	481-0700-0000
28 / 712	726	0,005	298	9,730	3	481-0712-0000
- / 750	764	0,003	313	10,240	3	481-0750-0000
- / 800	814	0,002	333	10,910	3	481-0800-0000
32 / 813-815	829	0,001	339	11,120	3	481-0815-0000
- / 900	914	0,001	373	12,270	3	481-0900-0000
36 / 915	929	0,001	379	12,470	3	481-0915-0000
- / 1000	1014	0,001	413	13,620	3	481-1000-0000
40 / 1016	1030	0,001	420	13,840	3	481-1016-0000

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Accessories



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CLAMP 217



CLAMP 213

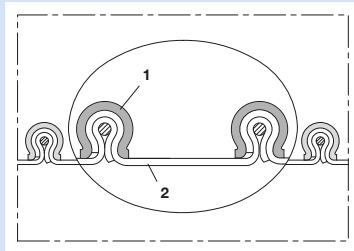
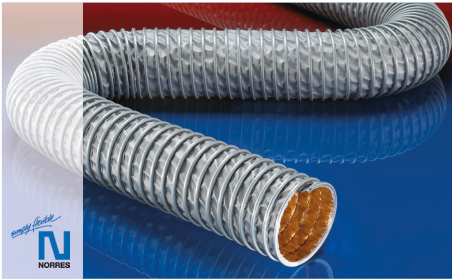


CONNECT 228



CONNECT 270-271

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High-temperature hose, clamp profile hose (clip hose), (up to +400°C)

Applications

- flexible hose/ ducting for hot and cold gases
- vehicle gas exhaust system, car gas extraction: hose reel, slotted floor channel, underfloor extraction system
- engine test bench, exhaust gas measurement
- chemical industry: chemical vapours, vapour 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

- -60°C to 400°C

Design, Material

CP construction

1. clamp profile supporting spiral: galvanised steel
2. Wall: Kapton® laminated glass fabric

Delivery variants

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

I.D.	O.D.	Over-pressure	Under-pressure	Bending Radius	Weight	Dimensions in Stock	Order No.
in / mm	mm	bar	bar	mm	kg/m	m	
2 / 50-51	62	0,520	0,370	18	0,680	6	476-0050-0000
- / 55	67	0,495	0,340	20	0,740	6	476-0055-0000
2,36 / 60	72	0,475	0,310	20	0,800	6	476-0060-0000
2,5 / 63-65	77	0,455	0,285	22	0,860	6	476-0065-0000
- / 70	82	0,435	0,255	22	0,920	6	476-0070-0000
3 / 75-76	87	0,415	0,225	24	0,980	6	476-0075-0000
- / 80	92	0,400	0,210	24	1,040	6	476-0080-0000
3,5 / 89-90	102	0,370	0,195	26	1,160	6	476-0090-0000
4 / 100-102	112	0,250	0,160	28	0,950	6	476-0100-0000
- / 110	122	0,235	0,130	30	1,040	3 6	476-0110-0000
4,5 / 114-115	127	0,230	0,120	32	1,090	3 6	476-0115-0000
4,72 / 120	132	0,225	0,113	32	1,130	3 6	476-0120-0000
5 / 125-127	137	0,215	0,105	34	1,180	3 6	476-0125-0000
- / 130	142	0,210	0,090	34	1,220	3 6	476-0130-0000
5,5 / 140	152	0,200	0,075	36	1,310	3 6	476-0140-0000
6 / 150-152	162	0,140	0,070	38	0,950	3 6	476-0150-0000
6,3 / 160	172	0,135	0,056	40	1,010	3 6	476-0160-0000
6,5 / 165	177	0,130	0,056	41	1,040	3 6	476-0165-0000
- / 170	182	0,130	0,056	42	1,070	3 6	476-0170-0000
- / 175	187	0,125	0,048	44	1,100	3 6	476-0175-0000
7 / 178-180	192	0,125	0,048	44	1,130	3 6	476-0180-0000
8 / 200-203	212	0,115	0,040	48	1,250	3 6	476-0200-0000
- / 215	227	0,110	0,032	52	1,340	3 6	476-0215-0000
- / 225	237	0,105	0,032	54	1,400	3 6	476-0225-0000
9 / 228-229	240	0,105	0,030	54	1,460	3 6	476-0228-0000
- / 250	262	0,080	0,027	58	1,560	3 6	476-0250-0000
10 / 254	266	0,080	0,025	60	1,590	3 6	476-0254-0000
- / 275	287	0,075	0,020	64	1,710	3 6	476-0275-0000

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

I.D.	O.D.	Over-pressure	Under-pressure	Bending Radius	Weight	Dimensions in Stock	Order No.
in / mm	mm	bar	bar	mm	kg/m	m	
11 / 280	292	0,075	0,020	65	1,740	36	476-0280-0000
- / 300	312	0,070	0,016	68	1,860	36	476-0300-0000
12 / 305	317	0,070	0,016	69	1,890	36	476-0305-0000
- / 315	327	0,070	0,016	71	1,950	36	476-0315-0000
- / 325	337	0,065	0,015	74	2,030	36	476-0325-0000
13 / 330	342	0,065	0,015	75	2,070	36	476-0330-0000
- / 350	362	0,055	0,015	78	2,160	36	476-0350-0000
14 / 356	368	0,050	0,015	80	2,190	36	476-0356-0000
- / 375	387	0,050	0,012	83	2,260	36	476-0375-0000
- / 400	412	0,050	0,012	88	2,470	36	476-0400-0000
16 / 405-406	418	0,050	0,012	90	2,510	36	476-0406-0000
- / 450	462	0,045	0,005	98	2,770	36	476-0450-0000
18 / 457	469	0,045	0,005	100	2,810	36	476-0457-0000
- / 500	512	0,040	0,005	110	3,070	36	476-0500-0000
20 / 508	520	0,030	0,005	110	3,120	36	476-0508-0000
- / 600	612	0,025	0,005	130	3,680	3	476-0600-0000
24 / 610	622	0,025	0,005	130	3,740	3	476-0610-0000
- / 700	712	0,020	0,002	151	4,290	3	476-0700-0000
28 / 712	724	0,020	0,002	151	4,360	3	476-0712-0000
- / 750	762	0,020	0,001	158	4,600	3	476-0750-0000
- / 800	812	0,020	0,001	168	4,900	3	476-0800-0000
32 / 813-815	827	0,020	0,001	171	4,990	3	476-0815-0000
- / 900	912	0,020	0,001	188	5,500	3	476-0900-0000
36 / 915	927	0,015	0,001	191	5,590	3	476-0915-0000
- / 1000	1012	0,015	0,001	208	6,110	3	476-1000-0000
40 / 1016	1028	0,015	0,001	213	6,200	3	476-1016-0000

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

Accessories



CLAMP 212



CLAMP 217



CLAMP 213

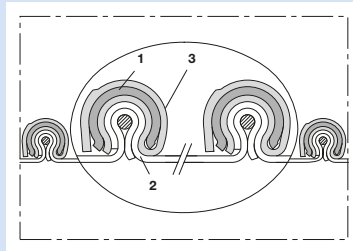


CONNECT 228



CONNECT 270-271

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



Exhaust gas hose, vibration resistant, outer protection profile

Applications

- flexible hose/ ducting for hot gases
- vehicle gas exhaust system, car gas extraction: hose reel, slotted floor channel, underfloor extraction system
- engine test bench, exhaust gas measurement

Properties

- outer protection profile made of elasticised material
- abrasion protection via external clamp profile
- secure clamping of the wall within the clamp profile
- highly flexible + compressible

- vibration resistant
- very good heat resistance
- good resistance to chemicals
- 1 clamp-cover band and 2 end-caps included
- conforms to RoHS guideline

Temperature Range

- exhaust gas temperatures to 200°C *
- * when correctly applied with exhaust gas funnels and sufficient fresh air supply (50% approx.).

Design, Material

- CP construction
- clamp profile supporting spiral: galvanised steel

- wall: CSM coated polyester fabric
- firmly clamped, shock-absorbing, anti-abrasion profile made from elasticised, high-temperature plastic

Delivery variants

- further diameters and lengths available on request
- special colours: coloured spiral
- stainless steel (INOX) clamp profile

I.D.	O.D.	Over-pressure	Under-pressure	Bending Radius	Weight	Dimensions in Stock	Order No.
in / mm	mm	bar	bar	mm	kg/m	m	
3 / 75-76	89	0,500	0,230	48	1,000	2,5 5 6 7,5	450-0075-7500
- / 80	94	0,485	0,200	49	1,060	2,5 5 6 7,5	450-0080-7500
4 / 100-102	114	0,300	0,120	58	1,030	2,5 5 6 7,5 10 12,5 15	450-0100-7500
5 / 125-127	139	0,260	0,085	70	1,270	2,5 5 6 7,5 10 12,5 15	450-0125-7500
6 / 150-152	164	0,165	0,050	81	1,270	2,5 5 6 7,5 10 12,5 15	450-0150-7500
8 / 200-203	214	0,140	0,030	103	1,560	2,5 5 6 7,5 10 12,5 15	450-0200-7500
- / 225	239	0,130	0,025	113	1,790	2,5 5 6 7,5 10 12,5 15	450-0225-7500
9 / 228-229	243	0,130	0,020	117	1,844	2,5 5 6 7,5 10 12,5 15	450-0228-7500
- / 250	264	0,100	0,020	125	1,940	2,5 5 6 7,5 10 12,5 15	450-0250-7500
10 / 254	268	0,095	0,020	130	1,995	2,5 5 6 7,5 10 12,5 15	450-0254-7500

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

Accessories



CLAMP 212



CLAMP 217



CLAMP 213

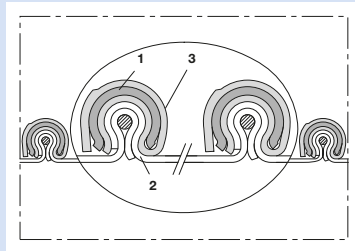


CONNECT 228



CONNECT 270-271

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



Exhaust gas hose, vibration resistant, outer protection profile

Applications

- flexible hose/ ducting for hot gases
- vehicle gas exhaust system, car gas extraction: hose reel, slotted floor channel, underfloor extraction system
- engine test bench, exhaust gas measurement

Properties

- outer protection profile made of elasticised material
- abrasion protection via external clamp profile
- secure clamping of the wall within the clamp profile
- highly flexible + compressible
- vibration resistant

- very good heat resistance
- good resistance to chemicals
- flame-retardant
- Aramid wall: Fire-class "M1" according to UNE 23.727-90
- 1 clamp-cover band and 2 end-caps included
- conforms to RoHS guideline

Temperature Range

- exhaust gas temperatures to 300°C *
- * when correctly applied with exhaust gas funnels and sufficient fresh air supply (50% approx.).

Design, Material

CP construction

- clamp profile supporting spiral: galvanised steel
- wall: special-coated high-temperature fabric
- firmly clamped, shock-absorbing, anti-abrasion profile made from elasticised, high-temperature plastic

Delivery variants

- further diameters and lengths available on request
- special colours: coloured spiral
- stainless steel (INOX) clamp profile

I.D.	O.D.	Over-pressure	Under-pressure	Bending Radius	Weight	Dimensions in Stock	Order No.
in / mm	mm	bar	bar	mm	kg/m	m	
3 / 75-76	89	0,420	0,230	48	0,870	2,5 5 6 7,5	461-0075-7500
- / 80	94	0,405	0,200	49	0,920	2,5 5 6 7,5	461-0080-7500
4 / 100-102	114	0,250	0,120	58	0,880	2,5 5 6 7,5 10 12,5 15	461-0100-7500
5 / 125-127	139	0,220	0,085	70	1,090	2,5 5 6 7,5 10 12,5 15	461-0125-7500
6 / 150-152	164	0,140	0,050	81	1,050	2,5 5 6 7,5 10 12,5 15	461-0150-7500
8 / 200-203	214	0,115	0,030	103	1,290	2,5 5 6 7,5 10 12,5 15	461-0200-7500
- / 225	239	0,110	0,025	113	1,490	2,5 5 6 7,5 10 12,5 15	461-0225-7500
9 / 228-229	243	0,110	0,025	117	1,550	2,5 5 6 7,5 10 12,5 15	461-0228-7500
- / 250	264	0,080	0,025	125	1,640	2,5 5 6 7,5 10 12,5 15	461-0250-7500
10 / 254	268	0,080	0,020	130	1,700	2,5 5 6 7,5 10 12,5 15	461-0254-7500

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

Accessories



CLAMP 212



CLAMP 217



CLAMP 213

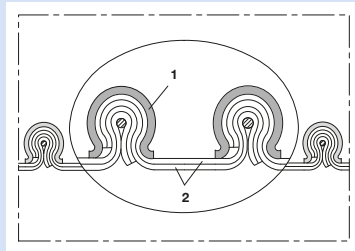
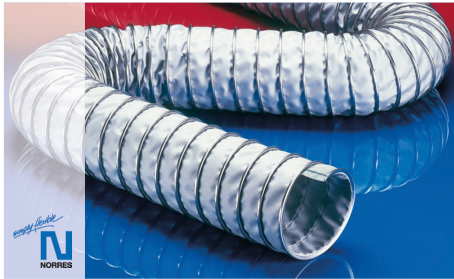


CONNECT 228



CONNECT 270-271

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



High-temperature hose, clamp profile hose (clip hose), (up to +500°C)

Applications

- flexible hose/ ducting for hot and cold gases
- engine test bench, exhaust gas measurement
- 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
- very good heat resistance
- conforms to RoHS guideline

Temperature Range

- -60°C to 450°C
- short time to 500°C

Design, Material

CP construction

1. clamp profile supporting spiral: galvanised steel
2. double-layer wall; wall: interior and exterior

special-coated high-temperature fabric

Delivery variants

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

I.D.	O.D.	Under-pressure	Bending Radius	Weight	Dimensions in Stock	Order No.
in / mm	mm	bar	mm	kg/m	m	
3 / 75-76	87	0,230	33	1,340	6	487-0075-0000
- / 80	92	0,200	34	1,420	6	487-0080-0000
3,5 / 89-90	102	0,140	37	1,580	6	487-0090-0000
4 / 100-102	112	0,120	51	1,290	6	487-0100-0000
- / 110	122	0,105	55	1,420	3 6	487-0110-0000
4,5 / 114-115	127	0,097	58	1,480	3 6	487-0115-0000
4,72 / 120	132	0,090	59	1,540	3 6	487-0120-0000
5 / 125-127	137	0,085	61	1,600	3 6	487-0125-0000
- / 130	142	0,075	63	1,660	3 6	487-0130-0000
5,5 / 140	152	0,060	67	1,780	3 6	487-0140-0000
6 / 150-152	162	0,050	38	1,340	3 6	487-0150-0000
6,3 / 160	172	0,045	40	1,460	3 6	487-0160-0000
6,5 / 165	177	0,045	41	1,500	3 6	487-0165-0000
- / 170	182	0,040	42	1,550	3 6	487-0170-0000
- / 175	187	0,040	44	1,590	3 6	487-0175-0000
7 / 178-180	192	0,040	44	1,630	3 6	487-0180-0000
8 / 200-203	212	0,030	48	1,810	3 6	487-0200-0000
- / 215	227	0,030	52	1,940	3 6	487-0215-0000
- / 225	237	0,025	54	2,030	3 6	487-0225-0000
9 / 228-229	240	0,025	54	2,110	3 6	487-0228-0000
- / 250	262	0,025	58	2,250	3 6	487-0250-0000
10 / 254	266	0,020	60	2,240	3 6	487-0254-0000
- / 275	287	0,020	64	2,470	3 6	487-0275-0000
11 / 280	292	0,015	65	2,510	3 6	487-0280-0000
- / 300	312	0,015	68	2,690	3 6	487-0300-0000
12 / 305	317	0,015	69	2,740	3 6	487-0305-0000
- / 315	327	0,015	71	2,820	3 6	487-0315-0000
- / 325	337	0,015	73	2,910	3 6	487-0325-0000

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

I.D.	O.D.	Under-pressure	Bending Radius	Weight	Dimensions in Stock	Order No.
in / mm	mm	bar	mm	kg/m	m	
13 / 330	342	0,015	75	2,960	3 6	487-0330-0000
- / 350	362	0,015	78	3,130	3 6	487-0350-0000
14 / 356	368	0,015	80	3,180	3 6	487-0356-0000
- / 375	387	0,010	84	3,350	3 6	487-0375-0000
- / 400	412	0,010	88	3,560	3 6	487-0400-0000
16 / 405-406	418	0,010	90	3,610	3 6	487-0406-0000
- / 450	462	0,010	98	4,000	3 6	487-0450-0000
18 / 457	469	0,010	100	4,060	3 6	487-0457-0000
- / 500	512	0,005	108	4,440	3 6	487-0500-0000
20 / 508	520	0,005	110	4,510	3 6	487-0508-0000
- / 600	612	0,005	128	5,320	3	487-0600-0000
24 / 610	622	0,005	130	5,410	3	487-0610-0000
- / 700	712	0,002	148	6,200	3	487-0700-0000
28 / 712	724	0,002	151	6,310	3	487-0712-0000
- / 750	762	0,002	158	6,640	3	487-0750-0000
- / 800	812	0,002	168	7,070	3	487-0800-0000
32 / 813-815	827	0,001	172	7,200	3	487-0815-0000
- / 900	912	0,001	188	7,950	3	487-0900-0000
36 / 915	927	0,001	191	8,080	3	487-0915-0000
- / 1000	1012	0,001	208	8,830	3	487-1000-0000
40 / 1016	1028	0,001	213	8,970	3	487-1016-0000

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

Accessories



CLAMP 212

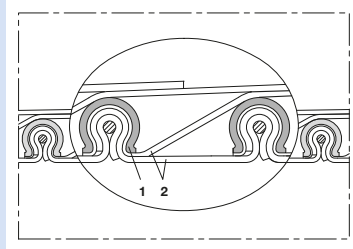
CLAMP 217

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CONNECT 228

CONNECT 270-271

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



High-temperature hose, clamp profile hose (clip hose), multi-layer, insulating, suitable for slight overpressure (up to +550°C)

Applications

- flexible hose/ ducting for hot and cold gases
- vehicle gas exhaust system, car gas extraction: hose reel, slotted floor channel, underfloor extraction system
- engine test bench, exhaust gas measurement
- high temperature extraction: oven, foundry, furnace, smelting, ceramics industry, glass industry, steel plant, aluminium mill
- bellows, compensators

Properties

- secure clamping of the wall within the clamp profile
- highly flexible + compressible
- insulating
- suitable for light overpressure
- very good heat resistance
- conforms to RoHS guideline

Temperature Range

- 60°C to 500°C
- short time to 550°C

Design, Material

CP construction

- clamp profile supporting spiral: galvanised steel
- multi-layer hose wall; wall: interior and exterior special coated glass fabric

Delivery variants

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

I.D.	O.D.	Under-pressure	Bending Radius	Weight	Dimensions in Stock	Order No.
in / mm	mm	bar	mm	kg/m	m	
4 / 100-102	115	0,150	53	1,640	6	485-0100-0000
- / 110	125	0,130	57	1,790	3 6	485-0110-0000
4,5 / 114-115	130	0,120	60	1,860	3 6	485-0115-0000
4,72 / 120	135	0,110	61	1,940	3 6	485-0120-0000
5 / 125-127	140	0,100	63	2,020	3 6	485-0125-0000
- / 130	145	0,095	65	2,090	3 6	485-0130-0000
5,5 / 140	155	0,075	69	2,240	3 6	485-0140-0000
6 / 150-152	165	0,060	73	1,860	3 6	485-0150-0000
6,3 / 160	175	0,055	77	1,980	3 6	485-0160-0000
6,5 / 165	180	0,050	79	2,040	3 6	485-0165-0000
- / 170	185	0,050	81	2,100	3 6	485-0170-0000
- / 175	190	0,050	83	2,160	3 6	485-0175-0000
7 / 178-180	195	0,050	85	2,220	3 6	485-0180-0000
8 / 200-203	215	0,040	93	2,460	3 6	485-0200-0000
- / 215	230	0,035	99	2,670	3 6	485-0215-0000
- / 225	240	0,030	103	2,750	3 6	485-0225-0000
9 / 228-229	243	0,030	106	2,900	3 6	485-0228-0000
- / 250	265	0,030	113	3,050	3 6	485-0250-0000
10 / 254	269	0,025	115	3,110	3 6	485-0254-0000
- / 275	290	0,025	123	3,400	3 6	485-0275-0000
11 / 280	295	0,020	125	3,450	3 6	485-0280-0000
- / 300	315	0,020	133	3,640	3 6	485-0300-0000
12 / 305	320	0,020	135	3,710	3 6	485-0305-0000
- / 315	330	0,020	139	3,850	3 6	485-0315-0000
- / 325	340	0,015	143	3,940	3 6	485-0325-0000
13 / 330	345	0,015	145	4,000	3 6	485-0330-0000
- / 350	365	0,015	153	4,230	3 6	485-0350-0000
14 / 356	371	0,015	156	4,300	3 6	485-0356-0000

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

I.D.	O.D.	Under-pressure	Bending Radius	Weight	Dimensions in Stock	Order No.
in / mm	mm	bar	mm	kg/m	m	
- / 375	390	0,015	163	4,530	3 6	485-0375-0000
- / 400	415	0,015	173	4,820	3 6	485-0400-0000
16 / 405-406	421	0,010	176	4,890	3 6	485-0406-0000
- / 450	465	0,010	193	5,410	3 6	485-0450-0000
18 / 457	472	0,010	196	5,490	3 6	485-0457-0000
- / 500	515	0,005	213	6,000	3 6	485-0500-0000
20 / 508	523	0,005	217	6,100	3 6	485-0508-0000

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

Accessories



CLAMP 212



CLAMP 217



CLAMP 213

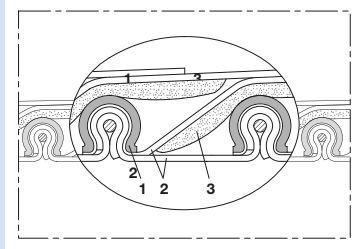


CONNECT 228



CONNECT 270-271

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



High-temperature hose, clamp profile hose (clip hose), multi-layer, insulating, suitable for slight overpressure (up to +700°C)

Applications

- flexible hose/ ducting for hot and cold gases
- vehicle gas exhaust system, car gas extraction: hose reel, slotted floor channel, underfloor extraction system
- engine test bench, exhaust gas measurement
- high temperature extraction: oven, foundry, furnace, smelting, ceramics industry, glass industry, steel plant, aluminium mill
- bellows, compensators

- secure clamping of the wall within the clamp profile
- insulating
- suitable for light overpressure
- very good heat resistance
- conforms to RoHS guideline

Temperature Range

- 60°C to 650°C
- short time to 700°C

- multi-layer hose wall; wall: interior and exterior special coated glass fabric, thermo-insulation fabric
- special thermal insulation layer

Delivery variants

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

Properties

- very good resistance to flying sparks and welding sparks

Design, Material

CP construction
1. clamp profile supporting spiral: galvanised steel

I.D.	O.D.	Over-pressure	Under-pressure	Bending Radius	Weight	Dimensions in Stock	Order No.
in / mm	mm	bar	bar	mm	kg/m	m	
4 / 100-102	118	0,130	0,180	64	1,850	6	486-0100-0000
- / 110	128	0,125	0,160	69	2,070	3 6	486-0110-0000
4,5 / 114-115	133	0,120	0,150	72	2,150	3 6	486-0115-0000
4,72 / 120	138	0,115	0,140	74	2,250	3 6	486-0120-0000
5 / 125-127	143	0,115	0,120	77	2,350	3 6	486-0125-0000
- / 130	148	0,110	0,110	79	2,390	3 6	486-0130-0000
5,5 / 140	158	0,105	0,090	84	2,570	3 6	486-0140-0000
6 / 150-152	168	0,070	0,075	89	2,450	3 6	486-0150-0000
6,3 / 160	178	0,065	0,070	94	2,610	3 6	486-0160-0000
6,5 / 165	183	0,065	0,070	97	2,690	3 6	486-0165-0000
- / 170	188	0,065	0,065	99	2,760	3 6	486-0170-0000
- / 175	193	0,065	0,060	102	2,840	3 6	486-0175-0000
7 / 178-180	198	0,065	0,055	104	2,920	3 6	486-0180-0000
8 / 200-203	218	0,060	0,045	114	3,230	3 6	486-0200-0000
- / 215	233	0,055	0,040	122	3,460	3 6	486-0215-0000
- / 225	243	0,055	0,040	127	3,620	3 6	486-0225-0000
9 / 228-229	246	0,055	0,035	129	3,680	3 6	486-0228-0000
- / 250	268	0,040	0,035	139	4,000	3 6	486-0250-0000
10 / 254	272	0,040	0,030	141	4,060	3 6	486-0254-0000
- / 275	293	0,040	0,030	152	4,400	3 6	486-0275-0000
11 / 280	298	0,040	0,025	154	4,480	3 6	486-0280-0000
- / 300	318	0,035	0,025	164	4,780	3 6	486-0300-0000
12 / 305	323	0,035	0,020	167	4,860	3 6	486-0305-0000
- / 315	333	0,035	0,020	172	5,020	3 6	486-0315-0000
- / 325	343	0,035	0,020	177	5,180	3 6	486-0325-0000
13 / 330	348	0,035	0,020	179	5,260	3 6	486-0330-0000
- / 350	368	0,025	0,015	189	5,570	3 6	486-0350-0000
14 / 356	374	0,025	0,015	192	5,660	3 6	486-0356-0000

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

I.D.	O.D.	Over-pressure	Under-pressure	Bending Radius	Weight	Dimensions in Stock	Order No.
in / mm	mm	bar	bar	mm	kg/m	m	
- / 375	393	0,025	0,015	202	5,960	3 6	486-0375-0000
- / 400	418	0,025	0,015	214	6,340	3 6	486-0400-0000
16 / 405-406	424	0,025	0,010	217	6,440	3 6	486-0406-0000
- / 450	468	0,020	0,010	239	7,120	3 6	486-0450-0000
18 / 457	475	0,020	0,010	243	7,230	3 6	486-0457-0000
- / 500	518	0,020	0,010	264	7,900	3 6	486-0500-0000
20 / 508	526	0,015	0,010	268	8,030	3 6	486-0508-0000

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

Accessories



CLAMP 212



CLAMP 217



CLAMP 213

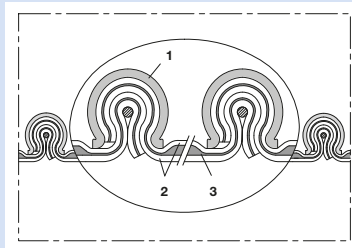
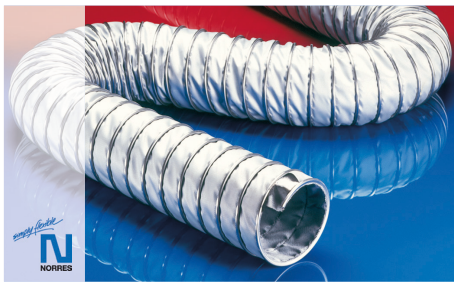


CONNECT 228



CONNECT 270-271

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



High-temperature hose, clamp profile hose (clip hose), multi-layer, insulating (up to 1.100°C)

Applications

- flexible hose/ ducting for hot and cold gases
- vehicle gas exhaust system, car gas extraction: hose reel, slotted floor channel, underfloor extraction system
- engine test bench, exhaust gas measurement
- high temperature extraction: oven, foundry, furnace, smelting, ceramics industry, glass industry, steel plant, aluminium mill
- bellows, compensators

Properties

- very good resistance to flying sparks and welding sparks
- abrasion protection via external clamp profile

- secure clamping of the wall within the clamp profile
- insulating
- extremely heat resistant
- conforms to RoHS guideline

Temperature Range

- 60°C to 900°C
- short time to 1.100°C

Design, Material

CP construction

- clamp profile supporting spiral: all-stainless steel (INOX)
- multi-layer hose wall; wall: interior stainless steel

wire reinforced and special coated glass fabric, thermo-insulation fabric, exterior special coated glass fabric

3. special thermal insulation layer

Delivery variants

- further diameters and lengths available on request

I.D.	O.D.	Over-pressure	Under-pressure	Bending Radius	Weight	Dimensions in Stock	Order No.
in / mm	mm	bar	bar	mm	kg/m	m	
4 / 100-102	114	0,130	0,180	64	2,800	6	483-0100-0000
- / 110	124	0,125	0,160	69	3,050	3 6	483-0110-0000
4,5 / 114-115	129	0,120	0,150	72	3,180	3 6	483-0115-0000
4,72 / 120	134	0,115	0,140	74	3,310	3 6	483-0120-0000
5 / 125-127	139	0,115	0,120	77	3,430	3 6	483-0125-0000
- / 130	144	0,110	0,110	79	3,560	3 6	483-0130-0000
5,5 / 140	154	0,105	0,090	84	3,820	3 6	483-0140-0000
6 / 150-152	164	0,070	0,075	89	3,070	3 6	483-0150-0000
6,3 / 160	174	0,065	0,070	94	3,270	3 6	483-0160-0000
6,5 / 165	179	0,065	0,065	97	3,370	3 6	483-0165-0000
- / 170	184	0,065	0,065	99	3,460	3 6	483-0170-0000
- / 175	189	0,065	0,060	102	3,550	3 6	483-0175-0000
7 / 178-180	194	0,065	0,055	104	3,650	3 6	483-0180-0000
8 / 200-203	214	0,060	0,045	114	4,030	3 6	483-0200-0000
- / 215	229	0,055	0,040	122	4,320	3 6	483-0215-0000
- / 225	239	0,055	0,040	127	4,510	3 6	483-0225-0000
9 / 228-229	242	0,055	0,035	129	4,590	3 6	483-0228-0000
- / 250	264	0,040	0,035	139	4,990	3 6	483-0250-0000
10 / 254	268	0,040	0,030	141	5,070	3 6	483-0254-0000
- / 275	289	0,040	0,030	152	5,470	3 6	483-0275-0000
11 / 280	294	0,040	0,025	154	5,570	3 6	483-0280-0000
- / 300	314	0,035	0,025	164	5,950	3 6	483-0300-0000
12 / 305	319	0,035	0,025	167	6,020	3 6	483-0305-0000
- / 315	329	0,035	0,025	172	6,150	3 6	483-0315-0000
- / 325	339	0,035	0,015	177	6,550	3 6	483-0325-0000
13 / 330	344	0,035	0,015	179	6,630	3 6	483-0330-0000
- / 350	364	0,025	0,015	189	6,910	3 6	483-0350-0000
14 / 356	370	0,025	0,015	192	7,000	3 6	483-0356-0000

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

I.D.	O.D.	Over- pressure	Under- pressure	Bending Radius	Weight	Dimensions in Stock	Order No.
in / mm	mm	bar	bar	mm	kg/m	m	
- / 375	389	0,025	0,015	202	7,250	3 6	483-0375-0000
- / 400	414	0,025	0,010	214	7,870	3 6	483-0400-0000
16 / 405-406	420	0,025	0,010	217	7,990	3 6	483-0406-0000
- / 450	464	0,020	0,010	239	8,830	3 6	483-0450-0000
18 / 457	471	0,020	0,010	243	8,960	3 6	483-0457-0000
- / 500	514	0,020	0,010	264	9,790	3 6	483-0500-0000
20 / 508	522	0,015	0,010	270	9,940	3 6	483-0508-0000

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Accessories



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CLAMP 217



CLAMP 213



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