

Master-PUR HX Trivolution

PU Transport hose & Suction Hose, highly abrasion resistant and vacuum proof, with reinforcement underneath the spiral, antistatic, surface resistance $< 10^9$ Ohm, microbe-resistant, hardly inflammable acc. to DIN 4102 B1



Technical Drawing



Connections



Construction



Material

- spiral: spring steel wire
- wall: pure polyester polyurethane (acc. to DIN ISO 4649 more abrasion-resistant in comparison to polyether polyurethane)
- wall thickness between spirals approx. 1.7 - 2.1 mm, depending on DN

Applications

- for increased requirements of abrasion resistance and durability
- Suction & transport hose for extremely abrasive media
- Flat-roof gravelling
- Working hose for silo vehicles and cargo depots
- Transport hose for problematic media, e.g. sand, gravel, grain, granules

Properties

- flexible
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- hardly inflammable acc. to DIN 4102 B1
- extremely abrasion resistant via specific reinforcements underneath the spiral
- microbe-resistant
- smooth inner lining, optimum flow characteristics
- high vacuum and apex pressure resistance
- highly durable, long service lives
- permanently antistatic, surface resistance < 10⁹ Ohm, measured according to DIN EN ISO 8031
- good resistance to chemicals, oil and fuel
- generally good UV and ozone resistance
- configurable as a hose system with digital interface for compatibility with the AMPIUS® APP
- halogen and plasticizer-free
- approved according to TRGS 727 and ATEX 2014/34 EU. [Details according to certificate.](#)
- acc. to DIN 26057

Temperature Range

- -40°C to +90°C
- peaks to +125°C

Product Variations

DN	op. pressure	vacuum	bend radius	outer Ø	weight/m	article no.	stock length	max. production length
	bar	bar	mm	mm	kg		m	m
32	4,85	0,94	80	42	0,66	000158:32:x	5/7,5/10	20
38	4,39	0,94	95	48	0,78	000158:38:x	5/7,5/10/15	20
40	4,27	0,94	100	50	0,83	000158:40:x	5/7,5/10/15/20	20
45	4,1	0,94	115	55	0,92	000158:45:x	5/7,5/10/15	20
50	4,02	0,94	124	60	1,02	000158:50:x	/	20
51	4	0,94	125	61	1,04	000158:51:x	2,5/5/7,5/10/15/20	20
55	3,75	0,89	140	65	1,1	000158:55:x	2,5/5/7,5/10/15	20
60	3,6	0,89	150	70	1,2	000158:60:x	2,5/5/7,5/10/15/20	20
65	3,3	0,89	165	75	1,29	000158:65:x	2,5/5/7,5/10/15	20
70	3,15	0,89	175	80	1,38	000158:70:x	2,5/5/7,5/10/15	20
75	2,95	0,89	188	85	1,48	000158:75:x	/	20
76	2,92	0,89	190	87	1,5	000158:76:x	2,5/5/7,5/10/15	20
80	2,77	0,89	200	93	1,93	000158:80:x	2,5/5/7,5/10/15	20
90	2,4	0,89	225	103	2,16	000158:90:x	2,5/5/7,5/10/15	20
100	2,15	0,88	238	113	2,53	000158:100:x	/	20
102	2,1	0,87	250	115	2,6	000158:102:x	2,5/5/7,5/10/15/20	20
110	1,95	0,87	275	124	2,82	000158:110:x	2,5/5/7,5/10	20
115	1,8	0,87	290	129	2,94	000158:115:x	2,5/5/7,5/10	20
120	1,65	0,87	300	134	3,07	000158:120:x	2,5/5/7,5/10	20
125	1,65	0,87	311	138	3,34	000158:125:x	/	20
127	1,65	0,87	315	140	3,44	000158:127:x	2,5/5/7,5/10/15/20	20
130	1,65	0,84	325	143	3,54	000158:130:x	/	20
140	1,5	0,83	350	153	3,81	000158:140:x	2,5/5/7,5/10	20
150	1,5	0,82	434	165	4,08	000158:150:x	/	20
152	1,5	0,82	450	167	4,13	000158:152:x	2,5/5/7,5/10/15/20	20
160	1,35	0,81	500	175	4,81	000158:160:x	2,5/5/7,5/10	20
170	1,2	0,8	600	185	5,1	000158:170:x	/	20

175	1,2	0,79	650	190	5,25	000158:175:x	/	20
180	1,2	0,77	700	195	5,4	000158:180:x	2,5/5/7,5/10	20
200	1,07	0,68	918	217	6,3	000158:200:x	/	15
203	1,05	0,66	950	220	6,43	000158:203:x	2,5/5/7,5/10/15	15
225	0,9	0,58	1150	241	7,11	000158:225:x	2,5/5/7,5/10	10
250	0,9	0,51	1300	267	7,91	000158:250:x	2,5/5/7,5/10	10
254	0,88	0,5	1325	271	8,04	000158:254:x	/	10
275	0,75	0,47	1450	292	8,68	000158:275:x	/	10
300	0,6	0,42	1600	317	9,45	000158:300:x	2,5/5/7,5/10	10

All data refers to a medium and ambient temperature of +20 °C.

* Refers to the inner hose lining

Subject to technical changes and colour deviations.

Available on request

- Available on request in other lengths, sizes and colours, with print.