COREDUX®

MAMBA PARRAP®B1

- Excellent choice for both transportation of ultra high purity gases and fluids, and for connecting vacuum spaces when flexibility is required
- Compressed for extra flexibility
- Smooth surface: ultra high purity and deep vacuum environments
- Any connector applicable in consultation with our engineers
- Superior life time up to 50.000 cycles; five times EN ISO 10380 standard

CoreDux base hose range									
Nominal Hose Size [mm (in.)]	Braid Type*	Hose material*	Hose Inside dia. [mm (in.)]	Hose outside dia. [mm (in.)]	Minimum centre line bend radius		Working pressure** at 70ºF (20ºC) [bar (psig)]	Minimum Burst Pressure at 70ºF (20ºC) [bar (psig)]	Temp. Range [ºC (ºF)]
					Static [mm (in.)]	Dynamic [mm (in.)]			
DN6 1/4"	Single	Stainless	6,2 (0.2)	11,4 (0.4)	23 (0.9)	110 (4.3)	140 (9.7)	560 (38.6)	-273 (-460) - 550 (-958)
DN8	Single	Stainless	8,5 (0.3)	15,2 (0.6)	28 (1.1)	130 (5.1)	115 (7.9)	460 (31.7)	-273 (-460) - 550 (-958)
DN10 3/8"	Single	Stainless	10,4 (0.4)	17,8 (0.7)	32 (1.3)	150 (5.9)	100 (6.9)	400 (27.6)	-273 (-460) - 550 (-958)
DN12 1/2"	Single	Stainless	12,4 (0.5)	20,2 (0.8)	39 (1.5)	165 (6.5)	80 (5.5)	320 (22.1)	-273 (-460) - 550 (-958)
DN15 5/8"	Single	Stainless	15,4 (0.6)	24,1 (0.9)	50 (2.0)	195 (7.7)	63 (4.3)	252 (17.4)	-273 (-460) - 550 (-958)
DN20 3/4"	Single	Stainless	20,3 (0.8)	29,9 (1.2)	60 (2.4)	225 (8.9)	50 (3.4)	200 (13.8)	-273 (-460) - 550 (-958)
DN25 1"	Single	Stainless	25,4 (1.0)	36,4 (1.4)	73 (2.9)	260 (10.2)	40 (2.8)	160 (11.0)	-273 (-460) - 550 (-958)
DN32 1 1/4"	Single	Stainless	32,3 (1.3)	45,4 (1.8)	90 (3.5)	300 (11.8)	40 (2.8)	160 (11.0)	-273 (-460) - 550 (-958)
DN40 1 1/2"	Single	Stainless	40,2 (1.6)	54,4 (2.1)	115 (4.5)	340 (13.4)	32 (2.2)	128 (8.8)	-273 (-460) - 550 (-958)
DN50 2"	Single	Stainless	50,5 (2.0)	67,3 (2.6)	140 (5.5)	390 (15.4)	32 (2.2)	128 (8.8)	-273 (-460) - 550 (-958)
DN65 2 1/2"	Single	Stainless	64,9 (2.6)	83,4 (3.3)	175 (6.9)	460 (18.1)	25 (1.7)	100 (6.9)	-273 (-460) - 550 (-958)
DN80 3"	Single	Stainless	79,6 (3.1)	102,6 (4.0)	240 (9.4)	660 (26.0)	23 (1.6)	92 (6.3)	-273 (-460) - 550 (-958)
DN100 4"	Single	Stainless	101,5 (4.0)	129,5 (5.1)	290 (11.4)	750 (29.5)	15 (1.0)	60 (4.1)	-273 (-460) - 550 (-958)
DN125 5"	Single	Stainless	126 (5.0)	155 (6.1)	340 (13.4)	1000 (39.4)	13 (0.9)	52 (3.6)	-273 (-460) - 550 (-958)
DN150 6"	Single	Stainless	149 (5.9)	177 (7.0)	390 (15.4)	1250 (49.2)	11 (0.8)	44 (3.0)	-273 (-460) - 550 (-958)

*Values based on 316L, different materials available

**Temperature derating factor should apply to working pressure. Based on ISO 10380

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Braiding

- Double braided hose can be defined for specific demands (pressure and temperture resistance in combination with flexibility)

Product tests

- Helium leak test ($1x10^{-5}$ std cm3/s)
- Additional options: he leak test $1x10^{-9}$ std cm3/s

Optional leak tightness validations

- Depending on hose configuration, the following leak tightness validations are available:
- Helium leak test (multiple methods)
- Pressure decay test (high purity gas possible)
- Pressure resistance test

Optional cleanliness validations

- Particle purity validation
- UV/A inspection outside cleanliness
- Airborne particle counter (APC) inside cleanliness
- Molecular purity (high vacuum)
- Residual gas analysis (RGA) for outside cleanliness
- Total organic carbon analysis by gas chromatography (TOC) for inside cleanliness
- Moisture testing (H_2O)

Packaging

- Each hose is bagged individually and boxed. Longer hoses are coiled, bagged and boxed.