

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 70°F (20°C) [bar (psig)]	Minimum Burst Pressure at 70°F (20°C) [bar (psig)]	Temp. Range [°C (°F)]
					Static [mm (in.)]	Dynamic [mm (in.)]			
DN6 1/4"	Single	Stainless	6,0 (0.2)	11,4 (0.4)	20 (0.8)	110 (4.3)	150 (2175)	600 (8700)	-273 (-460) - 550 (-958)
DN8	Single	Stainless	8,3 (0.3)	15,2 (0.6)	20 (0.8)	130 (5.1)	115 (1668)	460 (6670)	-273 (-460) - 550 (-958)
DN10 3/8"	Single	Stainless	10,1 (0.4)	17,8 (0.7)	20 (0.8)	150 (5.9)	115 (1668)	460 (6670)	-273 (-460) - 550 (-958)
DN12 1/2"	Single	Stainless	12,0 (0.5)	20,2 (0.8)	25 (1)	124 (4.9)	80 (1160)	320 (4640)	-273 (-460) - 550 (-958)
DN15 5/8"	Single	Stainless	15,0 (0.6)	24,1 (0.9)	32 (1.3)	146 (5.7)	63 (914)	252 (3655)	-273 (-460) - 550 (-958)
DN20 3/4"	Single	Stainless	19,9 (0.8)	29,9 (1.2)	38 (1.5)	169 (6.7)	55 (798)	220 (3190)	-273 (-460) - 550 (-958)
DN25 1"	Single	Stainless	24,9 (1.0)	36,4 (1.4)	45 (1.8)	195 (7.7)	40 (580)	160 (2320)	-273 (-460) - 550 (-958)
DN32 1 1/4"	Single	Stainless	31,8 (1.3)	45,4 (1.8)	58 (2.3)	225 (8.9)	40 (580)	160 (2320)	-273 (-460) - 550 (-958)
DN40 1 1/2"	Single	Stainless	39,6 (1.6)	54,4 (2.1)	70 (2.8)	255 (10)	32 (464)	128 (1856)	-273 (-460) - 550 (-958)
DN50 2"	Single	Stainless	49,4 (2.0)	67,3 (2.6)	85 (3.3)	293 (11.5)	32 (464)	128 (1856)	-273 (-460) - 550 (-958)
DN65 2 1/2"	Single	Stainless	64,0 (2.5)	83,4 (3.3)	105 (4.1)	345 (13.6)	25 (363)	100 (1450)	-273 (-460) - 550 (-958)
DN80 3"	Single	Stainless	78,7 (3.1)	102,6 (4.0)	180 (7.1)	495 (19.5)	23 (334)	92 (1334)	-273 (-460) - 550 (-958)
DN100 4"	Single	Stainless	101,0 (4.0)	129,5 (5.1)	218 (8.6)	563 (22.2)	15 (218)	60 (870)	-273 (-460) - 550 (-958)
DN125 5"	Single	Stainless	125,2 (5.0)	155 (6.1)	255 (10)	1000 (39.4)	13 (189)	52 (754)	-273 (-460) - 550 (-958)
DN150 6"	Single	Stainless	148,2 (5.8)	177 (7.0)	290 (11.4)	1250 (49.2)	11 (160)	44 (638)	-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 temperature resistance in combination with flexibility)

Packaging

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

Product test

- Helium leak test (1×10^{-5} std cm³/s)
- Additional options: helium leak test 1×10^{-9} std cm³/s

Cleanliness

- Standard deliveries: White room
- Vacuum, Ultra high purity: possible upon request

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 (H₂O)

Compliance

- EN ISO 9001
- EN ISO 10380 / ASME 31.3