



## DIAMOND BACK

- Braided stainless steel hose with Pipe socket
- Heavy duty stainless steel hose for water purity applications
- Usage in combination with DIN 11851 couplings
  - Standard including DIN 11851 reihe 2 weld studs
- 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 20°C (70°F) [bar (psig)]	Minimum Burst Pressure at 20°C (70°F) [bar (psig)]	Temp. Range [°C (°F)]
					Static [mm (in.)]	Dynamic [mm (in.)]			
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)
DN15 1/2"	Single	Stainless	15,0 (0.6)	24.1 (0.95)	32 (1.3)	146 (4.75)	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)

\*Values based on 316L

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

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### Packaging

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

### Product test

- Helium leak test ( $1 \times 10^{-5}$  std cm<sup>3</sup>/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

### Cleanliness

- Standard deliveries: White room
- Vacuum, Ultra high purity (inside hose): possible upon request

### 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<sub>2</sub>O)

### Compliance

- EN ISO 9001
- EN ISO 10380 / ASME 31.3