



Rubber transfer hoses



VOLGA FRA ABR®

Robust suction and delivery hose for wet and dry abrasive substances

Inner layer: black NR/SBR rubber
Reinforcement: synthetic cord, steel spiral
Outer layer: black EPDM rubber
Operating temp: -40°C to +70°C

Extra-strong, thick suction and delivery hose for the transfer of a wide range of wet and dry abrasive substances. Thick inner layer smooth, antistatic, abrasion resistant (70 mm³ to ISO 4649, formerly DIN 53516). Thick reinforcement with synthetic cord and thick steel spiral. Built-in **copper cord** which dissipates electrical charges when earthed (or connected to a grounded terminal). Corrugated outer layer, weather and ozone resistant.

The hose is designed for the transfer of abrasive substances mixed with water and dry substances: cement, sand, gravel, seeds, etc. Suitable for heavy *duty* applications - "*Heavy Duty*". It can be bent to a relatively small bending radius, while its deflection requires considerable force. It can also be easily cut into sections directly at the point of use and assembled with special PN10 flange fittings (fitted to the outer surface of the hose).

Used in a wide range of applications, e.g. for bulk material handling in ports, in the mining industry, chemical industry, demolition in the construction industry, suction and transfer of water and sludge in dewatering works, gravel and sand pits, dredging and silting.

Versions with a different inner layer available on special order: 1. brown rubber NR for abrasive products; 2. white rubber NR for liquid food products (FDA, BfR) 3. CHEM version - resistant to chemicals and hot abrasive products (up to 100°C).

Assembly: Hose to be assembled with VOLGA FRA system - aluminium half flanges PN10 applied externally to the hose. Assembly according to IT-92 - contact Tubes International.

index	internal diameter [mm]	external diameter [mm]	wall thickness [mm]	working pressure [bar]	Bursting pressure [bar]	vacuum [bar]	bend radius [mm]	mass [kg/m]	Roll length [m]
IV-VOLGA-ABR-051	51	83	16	10	30	0,9	255	3,75	60
IV-VOLGA-ABR-065	65	96	15,5	10	30	0,9	325	4,53	60
IV-VOLGA-ABR-080	80	112	16	10	30	0,9	400	5,85	60
IV-VOLGA-ABR-090	90	132	21	10	30	0,9	450	8,49	60
IV-VOLGA-ABR-100	100	132	16	10	30	0,9	500	6,86	60
IV-VOLGA-ABR-125	125	157	16	10	30	0,9	625	8,43	60
IV-VOLGA-ABR-150	150	182	16	10	30	0,9	750	11,51	60
IV-VOLGA-ABR-200	200	233	16,5	10	30	0,9	1700	14,80	60
IV-VOLGA-ABR-250	250	287	18,5	10	30	0,9	2125	19,64	12
IV-VOLGA-ABR-300	300	340,5	20,25	10	30	0,9	2550	26,54	12

Note: indexes highlighted in colour - most commonly used



The design of the VOLGA FRA ABR hose with integral thick steel helix, despite the greater force required to bend it and the greater weight of the hose, ensures a small bend radius, resistance to kinking and external trauma. Fittings mounted tightly on the thick outer notches where the steel spiral is located ensure that the hose is securely fastened.

