



Flat hoses for special applications



ULTRAMAN

Lightweight and durable flat hose for water, waste water, liquids and light chemicals

Hose material: black polyurethane - polyether (PU) pressed into the polyester braid during the hose extrusion process

Operating temp: -50°C to +75°C (water)

Lightweight, long-lasting, high-quality universal flat hose used in the mining, oil, energy and agricultural industries. Particularly used for water, sludge, waste water and fertilisers. Made of **hydrolysis-** and microbe-resistant **polyurethane-polyether**. Reinforcement from circumferentially woven polyester braid bonded and surrounded by polyurethane in the original manufacturing process of hot extrusion of thermoplastic polyurethane through the braid. A hose with high longitudinal strength, minimal elongation under pressure (up to 2%) and no tendency to kink or twist. Thanks to its durability combined with ease of handling (unwinding, laying, storage), it is widely used in water systems (open pit drainage, water supply, drainage and sewage disposal) and more. Resistant to a wide range of chemicals, microbes, fungi, hydrolysis, weathering, UV and ozone. With good abrasion resistance. Available by special order in lengths longer than 200 metres in diameters up to 6".

Chemical resistance check: PU chemical resistance table (pre-selection), confirmation of resistance and conditions of use by Tubes International.

index	internal diameter [mm]	wall thickness [mm]	external diameter [mm]	working pressure 20°C* [bar]	20°C burst pressure [bar]	mass [kg/m]	Roll length [m]	Hose bursting force (design)** [kG]
MR-ULTRAMAN-076	76,0+2,0	2,8	81,6	27	54	0,84	200	7900
MR-ULTRAMAN-102	102,0+2,5	3,2	108,4	21	42	1,20	200	10100
MR-ULTRAMAN-127	127,0+2,5	3,2	133,4	17,5	35	1,52	200	12000
MR-ULTRAMAN-152	152,0+3,0	3,2	158,4	15	30	1,73	200	14900
MR-ULTRAMAN-178	178,0+3,0	3,2	184,4	13,5	27	2,05	200	17100
MR-ULTRAMAN-203	203,0+3,0	3,2	209,4	13	26	2,44	200	18900
MR-ULTRAMAN-254	254,0+4,0	3,3	260,6	10,5	21	3,08	200	23700
MR-ULTRAMAN-305	305,0+5,0	3,4	311,8	8	16	4,05	200	38200

Note: Indices highlighted in colour - the most commonly used. * Max. working pressure for temporary use determined by a safety factor of 2:1 approved by the manufacturer (only for water and safe, non-flammable liquids). **For maximum service life, it is recommended not to exceed 1/3 of the burst pressure and the specified breaking load.



SUPERMAN HVT

Very strong and durable flat hose for water, waste water and light chemicals for heavy-duty applications

Hose material: black polyurethane - polyether (PU) pressed into the polyester braid during the hose extrusion process

Operating temp: -50°C to +75°C (water)

A very strong and durable high-quality flat hose designed for trouble-free and maintenance-free operation in harsh field conditions. Particularly used for water, sludge, sewage and other liquids. Made of **hydrolysis-** and microbe-resistant **polyurethane-polyether**. Reinforcement from circumferentially woven polyester braid bonded and surrounded by polyurethane in the original manufacturing process of hot extrusion of thermoplastic polyurethane through the braid. A hose with high longitudinal strength, minimal elongation under pressure and no tendency to kink, twist. The excellent abrasion and puncture resistance allows operation in heavy, rough terrain and minimises wear on the water-laden hose during possible pressure pulsations. Due to its strength and durability combined with ease of handling (reel - unwind), it is used in permanent and temporary high pressure and high capacity water systems in mining, power generation, agriculture, fire fighting applications. Resistant to a wide range of chemicals, microbes, fungi, hydrolysis, weather, UV and ozone.

Chemical resistance check: PU chemical resistance table (pre-selection), confirmation of resistance and conditions of use by Tubes International.

index	inside diameter [mm]	wall thickness [mm]	outside diameter [mm]	working pressure 20°C* [bar]	Bursting pressure 20°C [bar]	mass [kg/m]	Roll length [m]	Hose bursting force (design)** [kG]
MR-SUPERMAN-127	127,0+2,5	3,5	134,0	21	42	1,60	200	15800
MR-SUPERMAN-152	152,0+3,0	3,7	159,4	22,5	45	2,00	200	21000
MR-SUPERMAN-178	178,0+3,0	4,0	186,0	22,5	45	2,40	200	31800
MR-SUPERMAN-203	203,0+3,0	4,2	211,4	21	42	3,20	200	37000
MR-SUPERMAN-254	254,0+5,0	4,3	262,6	18	36	4,10	200	46000
MR-SUPERMAN-305	305,0+5,0	4,5	314,0	15	30	5,05	200	54500

Note: Indices highlighted in colour - the most commonly used. * Max. working pressure for temporary use determined by a safety factor of 2:1 approved by the manufacturer (only for water and safe, non-flammable liquids). **For maximum service life, it is recommended not to exceed 1/3 of the burst pressure and the specified breaking load.

