

Polyurethane (PU) and PVC universal hoses



ARMORVIN PRESS PU

Steel wire spiral reinforced polyurethane hose with PVC outer layer

Inner layer: transparent polyurethane (PU)
Reinforcement: steel spiral
Outer layer: transparent PVC
Operating temperature: -20°C to +90°C (medium)
 (working pressure dependent on temperature)

Lightweight, flexible, suction and delivery hose with an inner layer of abrasion- and oil-resistant polyurethane, with a dense steel reinforcing spiral for increased working pressure and vacuum resistance. Suitable for air, liquids, light chemicals, in pneumatic and hydraulic systems and for solids transfer. Smooth internal surface reduces flow losses and ensures easy cleaning. Transparent wall allows visual inspection of flow. The low-pitch helix reinforcement provides very good resistance to vacuum and hose kinking and a small bend radius.

In general industrial applications it can be used:

- for water, light chemicals and other fat-, oil- and hydrocarbon-based liquids (the chemical resistance of polyurethane must be taken into account);
- to air, for vacuum transfer of dusts, powders, granulates and other abrasive bulk substances (the abrasiveness of the medium and the possible problem of static electricity must then be taken into account).

It can be used in the food industry (where US FDA requirements 21 CFR 177.2600 e, f are acceptable) for liquid food substances for hydrated ('e') and fatty ('f') foods.

index	internal diameter [mm]	external diameter [mm]	wall thickness [mm]	working pressure 20°C [bar]	Bursting pressure 20°C [bar]	20°C vacuum [bar]	bend radius [mm]	mass [kg/m]	Roll length [m]
ME-ARMPREPU-05	5	10	2,5	20	60	0,9	20	0,080	60
ME-ARMPREPU-06	6	11	2,5	20	60	0,9	23	0,095	60
ME-ARMPREPU-08	8	13,5	2,75	18	54	0,9	32	0,135	60
ME-ARMPREPU-09	9,5	15,5	3	18	54	0,9	38	0,165	60
ME-ARMPREPU-10	10	16	3	17	51	0,9	40	0,180	60
ME-ARMPREPU-12	12	18	3	16	48	0,9	45	0,210	60
ME-ARMPREPU-13	12,7	19	3,15	15	45	0,9	50	0,230	60
ME-ARMPREPU-14	14	20,5	3,25	14	42	0,9	56	0,240	60
ME-ARMPREPU-16	16	23	3,5	14	42	0,9	63	0,290	60
ME-ARMPREPU-18	18	25	3,5	12	36	0,9	70	0,320	60
ME-ARMPREPU-19	19,1	26	3,45	12	36	0,9	76	0,320	60
ME-ARMPREPU-20	20	27	3,5	12	36	0,9	80	0,340	60

Note: indexes highlighted in colour - most commonly used

Temperature dependence of burst pressure and working pressure for typical polyurethane (PU) hoses							
temperature	20°C	30°C	40°C	50°C	60°C	70°C	
pressure	100%	84%	70%	60%	52%	46%	



ARMORVIN PRESS PU hose
 DN20 with brass end (NT-2760EA4) with external thread.
 3/4" BSP fitted with a worm band.

ARMORVIN PRESS PU hose
 DN10 with hydraulic fitting (TI-ZNZ110-06-06) with external thread.
 3/8" NPT mounted collet.

