Hoses for distribution and refuelling of fuels and oils

VACUPRESS® OIL

PVC hose reinforced with wire coil and braid, oil-resistant

Inner layer: black PVC / PU / NBR **Reinforcement:** steel spiral, polyester braid
Outer layer: black PVC / PU / NBR
black PU (76 mm diameter and above)
Operating temp: -25°C to +60°C (operating pressure temperature-dependent)

Very strong and flexible, abrasion-resistant suction and delivery hose for the pressure transfer of oils and fuels. The special mixture of PVC, PU and NBR ensures high resistance to diesel, biodiesel, and blue oil (marine fuel). Reinforcement with a spiral of galvanised steel wire, embedded in a PVC inner layer, provides good resistance to vacuum and hose kinking. The smooth inner layer reduces flow losses. Due to the braided reinforcement, the hose has high working pressure and low deformation under pressure.
Used in the distribution, refuelling and handling of oils and fuels, e.g. in tanker trucks for refuelling heating oil in domestic heating systems. Hoses with diameters of 76÷ 102 mm have a polyurethane outer layer (significantly increasing abrasion resistance) and an antistatic copper wire.

Verification of chemical resistance: PVC chemical resistance table (pre-selection), manufacturer's PVC OIL resistance table (available from Tubes International, pre-selection), confirmation of resistance and conditions of use by Tubes International.

index	internal diameter [mm]	external diameter [mm]	wall thickness [mm]	working pressure 20ºC [bar].	Bursting pressure 20ºC [bar].	20ºC vacuum [bar].	bend radius [mm]	mass [kg/m]	Roll length [m]
ME-VACUPROIL-019	19	28	4,5	16	48	0,9	70	0,45	60
ME-VACUPROIL-025	25	35,5	5,25	16	48	0,9	80	0,67	60
ME-VACUPROIL-030	30	40,6	5,3	16	48	0,9	90	0,77	60
ME-VACUPROIL-032	32	42,5	5,25	16	48	0,9	100	0,80	60
ME-VACUPROIL-035	35	48	6,5	14	42	0,9	120	1,05	60
ME-VACUPROIL-038	38	51	6,5	14	42	0,9	125	1,20	40
ME-VACUPROIL-040	40	53	6,5	14	42	0,9	130	1,25	40
ME-VACUPROIL-045	45	58	6,5	12	36	0,9	140	1,34	40
ME-VACUPROIL-050	50	63	6,5	12	36	0,9	150	1,73	40
ME-VACUPROIL-060	60	74	7	12	36	0,9	180	1,95	40
ME-VACUPROIL-063	63	77	7	12	36	0,9	190	2,03	40
hoses with PU outer layer and antistatic copper wire									
ME-VACUPROIL-076	76	90,5	7,25	10	30	0,9	210	2,70	30
ME-VACUPROIL-080	80	94,5	7,25	10	30	0,9	220	2,80	30
ME-VACUPROIL-090	90	106	8	10	30	0,9	250	3,25	30
ME-VACUPROIL-102	102	117,5	7,75	10	30	0,9	300	3,70	30

Note: Indexes highlighted in colour - most commonly used.

Temperature dependence of burst pressure and working pressure for typical PVC hoses	temperature	20ºC	30ºC	40ºC	50ºC	60ºC	70ºC
	pressure	100%	74%	55%	40%	30%	22%

VACUPRESS OIL hose DN25 with brass end with BSP 1" male thread (MU-2864) fitted with a strong galvanised steel screw clamp (AB-HDC-032-035-W1).

VACUPRESS OIL hose DN50 with CAMLOCK 2" coupling (AC-C-200-AX) with aluminium mounted with two worm bands (AB-03017543) in AISI 316 stainless steel.