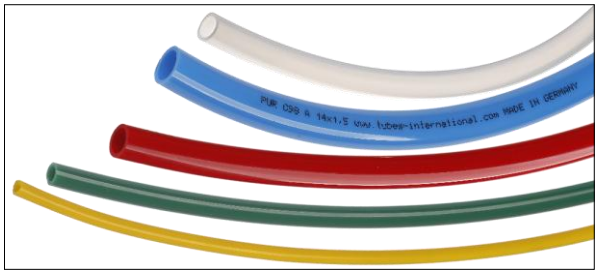
Polyurethane tubing PU



PUR

Multipurpose, high quality, classic polyurethane tubing for compressed air

Material: PUR polyurethane (polyester)
Hardness: 52 Shore (D) / 98 Shore (A)
Working temperature: from -35°C to +80°C
Available colours:

Light, soft and flexible polyurethane pneumatic tubing made in Germany. An excellent product for all classic compressed air applications requiring high strength, flexibility at low temperatures and long tubing life. Contains no plasticisers. Opaque – also in natural colour. Resistant to abrasion, fuels and hydrocarbons. Used in pneumatics and industrial automation, pneumatic tools and industrial robots. Used wherever a very small bending radius is required or where repeated bending could cause problems. The calibrated outside diameter allows connection to the system using push-in fittings. Assembly with compression ring fittings and push-on fittings is also possible (some sizes).

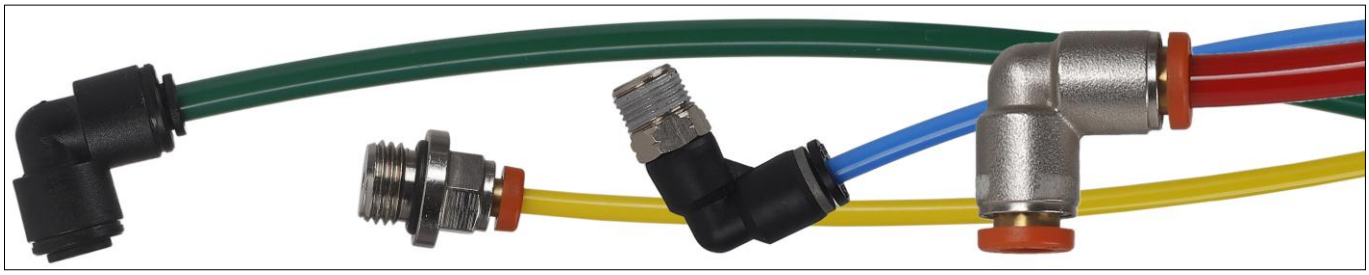
PUR (polyester): working pressure and burst pressure as a function of temperature*	temperature	20ºC	30ºC	40ºC	50ºC	60ºC	70ºC	80ºC
	pressure	100%	92%	82%	74%	65%	60%	56%

* approximate values (averages of test values for various diameters)

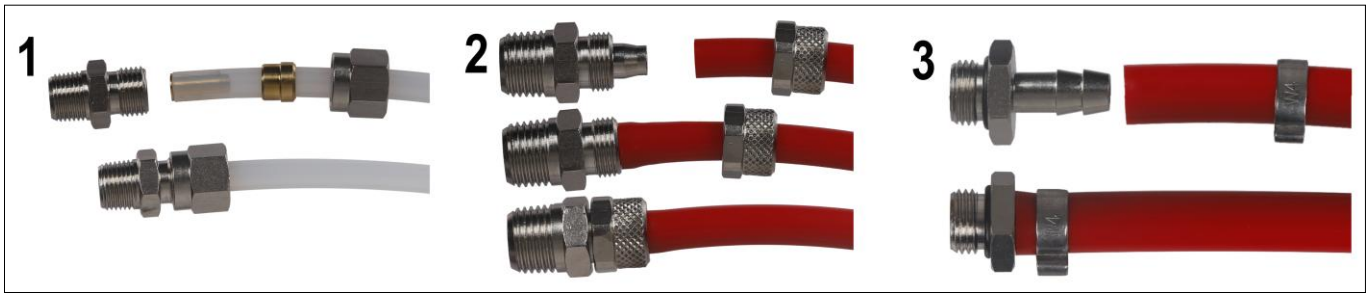
D – outside diameter	**d** – inside diameter	**g** – wall thickness	**WP** – working pressure 20°C	**BP** – burst pressure 20°C	**V** – vacuum 20°C	**R** – bending radius	**m** – unit weight	**L** – roll length

index (natural colour)	index (blue colour)	index (black colour)	other colours*	**D** [mm]	**d** [mm]	**g** [mm]	**WP** [bar]	**BP** [bar]	**V**** [bar]	**R** [mm]	**m** [kg/m]	**L** [m]
PP-PUR-03X1,8	PP-PUR-03X1,8BL	PP-PUR-03X1,8BK	-	3	1,8	0,6	15	45	0,95	10	0,0055	50
PP-PUR-04X2,5	PP-PUR-04X2,5BL	PP-PUR-04X2,5BK	G / R / Y	4	2,5	0,75	13	38	0,95	12	0,0093	50
PP-PUR-05X3,1	PP-PUR-05X3,1BL	PP-PUR-05X3,1BK	-	5	3,1	0,95	13	40	0,95	13	0,0148	50
PP-PUR-06X4	PP-PUR-06X4BL	PP-PUR-06X4BK	G / R / Y	6	3,9	1,05	11	34	0,95	18	0,0199	50
PP-PUR-08X5,7	PP-PUR-08X5,7BL	PP-PUR-08X5,7BK	G / R / Y	8	5,7	1,15	11	32	0,95	30	0,0302	50
PP-PUR-10X7,5	PP-PUR-10X7,5BL	PP-PUR-10X7,5BK	G / R / Y	10	7,5	1,25	9	26	0,95	45	0,0419	50
PP-PUR-12X9	PP-PUR-12X9BL	PP-PUR-12X9BK	G / R / Y	12	9	1,5	9	27	0,95	55	0,0604	50
PP-PUR-14X11	PP-PUR-14X11BL	-	-	14	11	1,5	8	23	0,95	60	0,0719	50
PP-PUR-16X11	PP-PUR-16X11BL	-	-	16	11	2,5	13	39	0,95	65	0,1294	50

Notes: * G – green; R – red; Y – yellow; ** - for vacuum applications, increase the minimum bending radius by approximately 20%.



PUR pneumatic tubing with various push-in fittings. The connection is made by pushing the tubing into the fitting. Disconnection requires the coloured release ring (sleeve) to be pressed firmly against the fitting. PUR tubing with a calibrated outside diameter is suitable for connection with push-in fittings.



Other assembly options for PUR tubing: 1 – pneumatic compression ring fittings (PP-PUR-06X4 tubing, straight adaptor type B1: MW-2201002 with 1/8" BSPT male thread, reinforcing insert B12: MW-2212001 pressed into the tubing); 2 – pneumatic push-on fittings – assembly possible for some sizes (PP-PUR-08X5,7R tubing, straight adaptor C1 with 1/4" BSPT male thread: MW-2301004). Compression ring fittings and push-on fittings are used in more demanding installations (vibration, line movement, dynamic pressure changes). Another assembly option: 3 – assembly on the tail of a fitting with the tubing clamped with a clamp, ferrule or compression ring – example: PP-PUR-12X9R tubing, threaded pneumatic fitting (hose tail) A19: MW-2119005 with 1/4" BSP male thread, EARCLIP compression ring AB-23012028.