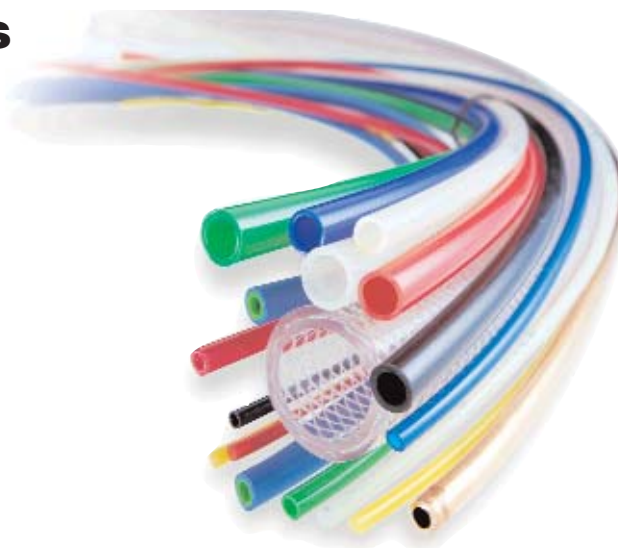


# Tubing and hoses

Ø 4 to 28 mm O/D

Ø 1/8" to 1 1/8" O/D



Available in a variety of different types to suit a wide range of applications.

All tubing can be used with specific ranges of tube fittings shown in this catalogue.

Nylon and polyurethane tube available in a range of colours for ease of identification.

## Technical data

Medium:

Compressed air. Consult our Technical Service for use with other fluids.

Operating pressure:

Refer to specific tubing type on the following pages.

Ambient temperature:

Refer to specific tubing type on the following pages.

## Materials

Nylon tube: nylon (polyamide) type 12, fully plasticised and light stabilised. metric tube meets the requirements of DIN 73378 and BS 5409.

Polyurethane tube: is light stabilised and has a hardness of 92-98 shore A.

Nylon tube (food grade): nylon (polyamide) type 11 or 12 unplasticised.

Polyester reinforced PVC: high quality electrically non-conductive plasticised PVC hose, high tensile polyester fibre braiding, galvanised steel 'O' clips and brass tailpieces on assembled hoses.

Metal braided hoses: E90 nitrile rubber hose, galvanised steel braiding wire, brass ferrules, copper tailpieces.

Copper tube: phosphorous de-oxidised copper to BS6017 grade Cu-DHP.

Double wall brazed steel: copper coated steel strip with tinned external surface (Bundy).

Weldtube: polyurethane (95° shore A) inner tube, flame retardant PVC outer tube.

## Tube sizes (metric)

O/D mm	4	5	6	8	10	12	14	16	22	28
Nylon	●	●	●	●	●	●	●	●	●	●
Polyurethane	●	●	●	●	●	●				
Polyester reinforced PVC	●	●	●	●	●	●	●	●	●	●
Metal braided	●	●	●	●	●	●				
Copper-half hard and annealed	●	●	●	●	●	●		●	●	●
Bundy			●	●	●	●				

## Tube sizes (inch)

O/D inches	1/8	5/32	3/16	1/4	5/16	3/8	1/2	5/8	3/4	7/8	1 1/8
Nylon	●		●	●	●	●	●	●			
Nylon (food grade)			●	●	●	●					
Polyester reinforced PVC			●	●	●	●	●	●	●		
Metal braided			●	●	●	●	●				
Copper-half hard and annealed	●	●	●	●	●	●	●	●	●	●	●
Copper heavy duty			●	●	●	●	●	●	●	●	
Bundy		●	●	●	●	●	●				

## Maximum working pressures

O/D mm	4	5	6	8	8**	10	10**	12	12**	14	15**	16	22	28
Max. pressure (bar)*	Nylon	28	31	25	19	10	24	8	18	6	15	6	18	15
at -40°C to +20°C	Polyurethane	10	11	9	9	-	9	-	9	-	-	-	-	-
Min. bend radius mm	Nylon	25	25	30	50		60		75		80		95	125
	Polyurethane	7	9	16	17	-	25	-	-	-	-	-	-	-

Maximum continuous working temperature: nylon +80°C, polyurethane +60°C.

\*Multiply by factors in table alongside for use at higher temperatures.

\*\*Extraflexible tube

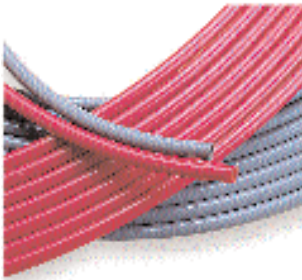
## Pressure/temperature conversion factors

Working Temperature	Factor
+30°C	0,83
+40°C	0,72
+50°C	0,64
+60°C	0,57
+80°C	0,47

## Tubing and hoses

Ø 4 to 28 mm O/D

Ø 1/8" to 1 1/8" O/D



Norgren nylon tubing to DIN 73378,  
DIN 74324 and BS5409-1 : 1976 table 2

O/D-I/Dmm	Length (m)	4/2,5	6/4	8/6
Corporate Red	25	PA0804025	PA0806025	PA0808025
Corporate Grey	25	PA0604025	PA0606025	PA0608025



Nylon to DIN 73378, DIN 74324 and BS5409-1 : 1976 table 2

O/D I/D	Length (m)	4/2,5	5/3	6/4	8/6	10/7,5	12/9	14/11	16/12	22/17	28/22
Natural	15	PA0004015C	PA0005015C	PA0006015C	PA0008015C	PA0010015C	PA0012015C	PA0014015C	PA0016015C	PA0022015C	PA0028015C
Natural	25	PA0004025C	PA0005025C	PA0006025C	PA0008025C	PA0010025C	PA0012025C	PA0014025C	PA0016025C	PA0022025C	PA0028025C
Natural	100	PA0004100C	PA0005100C	PA0006100C	PA0008100C	PA0010100C	PA0012100C	PA0014100C	-	-	-
Black	15	PA0704015C	PA0705015C	PA0706015C	PA0708015C	PA0710015C	PA0712015C	-	-	-	-
Black	25	PA0704025C	PA0705025C	PA0706025C	PA0708025C	PA0710025C	PA0712025C	PA0714025C	-	-	-
Black	100	PA0704100C	PA0705100C	PA0706100C	PA0708100C	PA0710100C	PA0712100C	PA0714100C	-	-	-
Blue	15	PA0504015C	PA0505015C	PA0506015C	PA0508015C	PA0510015C	PA0512015C	-	-	-	-
Blue	25	PA0504025C	PA0505025C	PA0506025C	PA0508025C	PA0510025C	PA0512025C	PA0514025C	-	-	-
Blue	100	PA0504100C	PA0505100C	PA0506100C	PA0508100C	PA0510100C	PA0512100C	PA0514100C	-	-	-
Red	15	PA0104015C	PA0105015C	PA0106015C	PA0108015C	PA0110015C	PA0112015C	-	-	-	-
Red	25	PA0104025C	PA0105025C	PA0106025C	PA0108025C	PA0110025C	PA0112025C	PA0114025C	-	-	-
Red	100	PA0104100C	PA0105100C	PA0106100C	PA0108100C	PA0110100C	PA0112100C	PA0114100C	-	-	-
Yellow	15	PA0304015C	PA0305015C	PA0306015C	PA0308015C	PA0310015C	PA0312015C	PA0314015C	-	-	-
Yellow	25	PA0304025C	PA0305025C	PA0306025C	PA0308025C	PA0310025C	PA0312025C	PA0314025C	-	-	-
Yellow	100	PA0304100C	PA0305100C	PA0306100C	PA0308100C	PA0310100C	PA0312100C	PA0314100C	-	-	-
Green	15	PA0204025C	PA0205015C	PA0206015C	PA0208015C	PA0210015C	PA0212015C	PA0214025C	-	-	-
Green	100	PA0204100C	PA0205100C	PA0206100C	PA0208100C	PA0210100C	PA0212100C	PA0214100C	-	-	-

Extraflex nylon PS11

O/D I/D	Length (m)	8/6	10/8	12/10	15/12,5
Natural	25	PS0008025	PS0010025	PS0012025	PS0015025

Polyurethane

O/D I/D	Length (m)	4/2,5	5/3	6/4	8/5,5	10/7	12/8
Natural	25	PU0004025C	PU0005025C	PU0006025C	PU0008025C	PU0010025C	PU0012025C
Natural	100	PU0004100C	PU0005100C	PU0006100C	PU0008100D	PU0010100D	PU0012100D
Black	25	PU0704025C	PU0705025C	PU0706025C	PU0708025C	PU0710025C	PU0712025C
Black	100	PU0704100C	PU0705100C	PU0706100C	PU0708100D	PU0710100D	PU0712100D
Blue	25	PU0504025C	PU0505025C	PU0506025C	PU0508025C	PU0510025C	PU0512025C
Blue	100	PU0504100C	PU0505100C	PU0506100C	PU0508100D	PU0510100D	PU0512100D
Red	25	PU0104025C	PU0105025C	PU0106025C	PU0108025C	PU0110025C	PU0112025C
Red	100	PU0104100C	PU0105100C	PU0106100C	PU0108100D	PU0110100D	PU0112100D
Yellow	25	PU0304025C	PU0305025C	PU0306025C	PU0308025C	PU0310025C	PU0312025C
Yellow	100	PU0304100C	PU0305100C	PU0306100C	PU0308100D	PU0310100D	PU0312100D
Green	25	PU0204025C	Options	PU0206025C	PU0208025C	Options	Options
Green	100	PU0204100C	Options	PU0206100C	PU0208100D	PU0210100D	PU0212100D

Key: (D) = Drum (C) = coil

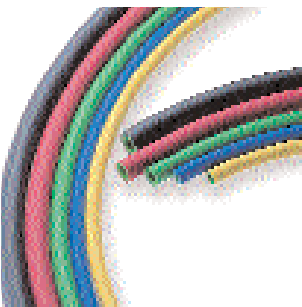


Weldtube

O/D	O/D	I/D	Max. recommended	Bend	Colour	
Outer tube (mm)	Inner tube (mm)	Inner tube (mm)	working pressure (bar)	radius (mm)		
8	6	4	10	40	Black	WT4706025
8	6	4	10	40	Red	WT4106025
8	6	4	10	40	Green	WT4206025
8	6	4	10	40	Blue	WT4506025
10	8	6	10	50	Black	WT4708025
10	8	6	10	50	Red	WT4108025
10	8	6	10	50	Green	WT4208025
10	8	6	10	50	Blue	WT4508025
12,5	10	7	10	65	Black	WT4710025
12,5	10	7	10	65	Red	WT4110025
12,5	10	7	10	65	Green	WT4210025
12,5	10	7	10	65	Blue	WT4510025
14,5	12	9	10	75	Black	WT4712025
14,5	12	9	10	75	Red	WT4112025
14,5	12	9	10	75	Green	WT4212025
14,5	12	9	10	75	Blue	WT4512025

The colours are for the outer PVC cover. tubing is supplied shrink-wrapped in 25 m coils. Other colours can be supplied for orders of sufficient quantity.

Tubing can also be supplied in longer lengths subject to economic order quantities. inch tube also available.



Inch range also available

## Tubing and hoses

Ø 4 to 28 mm O/D BSPT male thread

Ø 1/8" to 1 1/8" O/D



PA Pneuflex spring coils

Weldtube

O/D Tube	Adaptor (thread)	Length of closed spiral (mm)	Working length (mm)	Operating pressure at +20°C (bar)	
6	R1/4	200	3000	31	PA330600328
6	R1/4	250	3750	31	PA330600428
6	R1/4	333	5000	31	PA330600528
6	R1/4	500	7500	31	PA330600828
6	R1/4	1000	15000	31	PA330601528
8	R1/4	200	3000	22	PA330800328
8	R1/4	250	3750	22	PA330800428
8	R1/4	333	5000	22	PA330800528
8	R1/4	500	7500	22	PA330800828
8	R1/4	1000	15000	22	PA330801528
10	R1/4	210	3000	17	PA331000328
10	R1/4	262	3750	17	PA331000428
10	R1/4	350	5000	17	PA331000528
10	R1/4	525	7500	17	PA331000828
10	R1/4	1000	15000	17	PA331001528
12	R3/8	200	3000	12	PA331200338
12	R3/8	250	3750	12	PA331200438
12	R3/8	333	5000	12	PA331200538
12	R3/8	500	7500	12	PA331200838
12	R3/8	1000	15000	12	PA331201538
*15	G1/2A	166	3000	17	PA331500348
*15	G1/2A	207	3750	17	PA331500448
*15	G1/2A	277	5000	17	PA331500548
*15	G1/2A	415	7500	17	PA331500848

Mounting method: swivel fittings with male threads at both ends.

Coils are coloured yellow. Other colours can be supplied to order.

\*All adaptors thread are BSPT except 1/2 BSPP male thread.



PU Pneuflex spring coils

O/D Tube	Adaptor (thread)	Length of closed spiral (mm)	Working length (mm)	Operating pressure at +20°C (bar)	
6 x 4	R1/8	165	2000	10	PU310600218
6 x 4	R1/8	350	4000	10	PU310600418
6 x 4	R1/8	545	6000	10	PU310600618
6 x 4	R1/8	720	8000	10	PU310600818
8 x 5	R1/4	180	2000	10	PU310800228
8 x 5	R1/4	400	4000	10	PU310800428
8 x 5	R1/4	630	6000	10	PU310800628
8 x 5	R1/4	800	8000	10	PU310800828
10 x 6,5	R1/4	185	2000	9	PU311000228
10 x 6,5	R1/4	400	4000	9	PU311000428
10 x 6,5	R1/4	635	6000	9	PU311000628
10 x 6,5	R1/4	800	8000	9	PU311000828
12 x 8	R3/8	180	2000	9	PU311200238
12 x 8	R3/8	390	4000	9	PU311200438
12 x 8	R3/8	590	6000	9	PU311200638
12 x 8	R3/8	780	8000	9	PU311200838