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**Технические характеристики на
резиновые шланги с металлической
оплеткой, нейлоновые трубки,
полиуретановые трубки, труборезы,
сварные трубки, аксессуары 4200, PA2,
Pneuflex, PU3, PU2, M/3314, Norweld
КОМПАНИИ **IMI NORGREN****

- > **O/D 4 ... 16 mm**
- > **Available in a range of colours for ease of identification**
- > **In addition to general industrial applications PA is suitable for use on air braking systems of commercial vehicles and conforms to DIN 74324. (Applicable sizes; 6, 8, 10, 12, 16mm O/D)**
- > **25 metre lengths supplied in cartons providing good protection and easy storage**



Technical features

Medium:

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

Operating pressure:

Refer to specific tubing type on the following pages

Ambient/Media temperature:

Refer to specific tubing type on the following pages

Materials:

PA type 12 fully plasticised and light stabilised. Metric tube meet the requirements of DIN 74324

Technical data

Colour	Length (m)	O/D I/D tube 4/2,5*	5/3*	6/4	8/6	10/7,5	12/9	14/11*	16/12
Natural	25	PA2-0004025C	PA2-0005025C	PA2-0006025C	PA2-0008025C	PA2-0010025C	PA2-0012025C	PA2-0014025C	PA2-0016025C
Natural	100	PA2-0004100	—	PA2-0006100	PA2-0008100	PA2-0010100	PA2-0012100	—	—
Red	25	PA2-0104025C	PA2-0105025C	PA2-0106025C	PA2-0108025C	PA2-0110025C	PA2-0112025C	PA2-0114025C	PA2-0116025C
Red	100	PA2-0104100	—	PA2-0106100	PA2-0108100	PA2-0110100	PA2-0112100	—	—
Green	25	PA2-0204025C	PA2-0205025C	PA2-0206025C	PA2-0208025C	PA2-0210025C	PA2-0212025C	PA2-0214025C	PA2-0216025C
Green	100	PA2-0204100	—	PA2-0206100	PA2-0208100	PA2-0210100	PA2-0212100	—	—
Yellow	25	PA2-0304025C	PA2-0305025C	PA2-0306025C	PA2-0308025C	PA2-0310025C	PA2-0312025C	PA2-0314025C	PA2-0316025C
Yellow	100	PA2-0304100	—	PA2-0306100	PA2-0308100	PA2-0310100	PA2-0312100	—	—
Blue	25	PA2-0504025C	PA2-0505025C	PA2-0506025C	PA2-0508025C	PA2-0510025C	PA2-0512025C	PA2-0514025C	PA2-0516025C
Blue	100	PA2-0504100	—	PA2-0506100	PA2-0508100	PA2-0510100	PA2-0512100	—	—
Black	25	PA2-0704025C	PA2-0705025C	PA2-0706025C	PA2-0708025C	PA2-0710025C	PA2-0712025C	PA2-0714025C	PA2-0716025C
Black	100	PA2-0704100	—	PA2-0706100	PA2-0708100	PA2-0710100	PA2-0712100	—	—
Silver	25	PA2-0904025C	PA2-0905025C	PA2-0906025C	PA2-0908025C	PA2-0910025C	PA2-0912025C	PA2-0914025C	PA2-0916025C
Silver	100	PA2-0904100	—	PA2-0906100	PA2-0908100	PA2-0910100	PA2-0912100	—	—

* Tube size does not conform to DIN 74324

Note: 'C' at the last digit in part number indicates packed in a box/carton

Option selector

PA2-0★★★★★

Colour	Substitute
Natural	0
Red	1
Green	2
Yellow	3
Blue	5
Black	7
Silver	9

Packaging	Substitute
25 m Carton/Box	C
100 m Plastic bag	None
Length (m)*	Substitute
25	025
100	100
Outer diameter	Substitute
4	04
5	05
6	06
8	08
10	10
12	12
14	14
16	16

Maximum operating pressures and bend radii

	Ø 4	Ø 5	Ø 6	Ø 8	Ø 10	Ø 12	Ø 14	Ø 16
Max. pressure (bar)* at -40 ... +20°C	31	33	27	19	19	19	16	19
Min. bend radius	25	25	30	40	60	60	80	95

Maximum continuous working temperature: PA +80°C

* Multiply by factors in table below for use at higher temperatures

Operating pressure/temperature conversion factors

Working temperature	Factor (PA)
-40 ... +20°C	1,00
+30°C	0,83
+40°C	0,75
+50°C	0,64
+60°C	0,57
+80°C	0,47

To calculate working pressures at various temperatures, multiply working pressure at -40 ... +20°C by factor given in table

Maximum continuous working temperature: +80°C

Accessories

Tubing channels			Tube clips – single sided			Tube cutter	
							
Model	Tube Ø	No. of channels	Model	Tube Ø	Number of tubes	Model	Description
100HA0600	6	10	34021804	6	1	M/3314	Cutter
100HA0800	8	10	34021904	6	2	39012010	Replacement blade (pack of 10)
100H61200	12	6	34021805	8	1	39012061	Replacement blade (1-off)
			34021905	8	2		
			34021806	10	1		
			34021906	10	2		
			34021807	12	1		
			34021907	12	2		
			34021508	16	1		

Warning

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»Technical features/data«.

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The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.

- > Ø 3 ... 16 mm
- > Available in a range of colours for ease of identification
- > PUR offers excellent mechanical properties and industry leading flexibility
- > 25 metre lengths supplied in cartons providing good protection and easy storage



Technical features

Medium:

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

Operating pressure:

Refer to specific tubing type on the following pages

Ambient/Media temperature:

Refer to specific tubing type on the following pages

Materials:

Is light stabilised and has a hardness of Shore D 52 (98 Shore A)

Technical data

Colour	Length (m)	O/D I/D tube 3/2	4/2,5	5/3	6/4	8/5,5	10/7	12/8	16/11
Natural	25	PU2-0003025C	PU2-0004025C	PU2-0005025C	PU2-0006025C	PU2-0008025C	PU2-0010025C	PU2-0012025C	PU2-0016025C
Natural	100	—	PU2-0004100	—	PU2-0006100	PU2-0008100	PU2-0010100	PU2-0012100	—
Red	25	—	PU2-0104025C	PU2-0105025C	PU2-0106025C	PU2-0108025C	PU2-0110025C	PU2-0112025C	—
Red	100	—	PU2-0104100	—	PU2-0106100	PU2-0108100	PU2-0110100	PU2-0112100	—
Green	25	—	PU2-0204025C	PU2-0205025C	PU2-0206025C	PU2-0208025C	PU2-0210025C	PU2-0212025C	—
Green	100	—	PU2-0204100	—	PU2-0206100	PU2-0208100	PU2-0210100	PU2-0212100	—
Yellow	25	—	PU2-0304025C	PU2-0305025C	PU2-0306025C	PU2-0308025C	PU2-0310025C	PU2-0312025C	—
Yellow	100	—	PU2-0304100	—	PU2-0306100	PU2-0308100	PU2-0310100	PU2-0312100	—
Blue	25	PU2-0503025C	PU2-0504025C	PU2-0505025C	PU2-0506025C	PU2-0508025C	PU2-0510025C	PU2-0512025C	PU2-0516025C
Blue	100	—	PU2-0504100	—	PU2-0506100	PU2-0508100	PU2-0510100	PU2-0512100	—
Black	25	—	PU2-0704025C	PU2-0705025C	PU2-0706025C	PU2-0708025C	PU2-0710025C	PU2-0712025C	—
Black	100	—	PU2-0704100	—	PU2-0706100	PU2-0708100	PU2-0710100	PU2-0712100	—
Silver	25	—	PU2-0904025C	—	PU2-0906025C	PU2-0908025C	PU2-0910025C	PU2-0912025C	—
Silver	100	—	PU2-0904100	—	PU2-0906100	PU2-0908100	PU2-0910100	PU2-0912100	—

Note: 'C' at the last digit in part number indicates packed in a box/carton

Option selector

PU2-0★★★★★★

Colour	Substitute
Natural	0
Red	1
Green	2
Yellow	3
Blue	5
Black	7
Silver	9

Packaging	Substitute
25 m Carton/Box	C
100 m Plastic bag	None
Length (m)*	Substitute
25	025
100	100
Outer diameter	Substitute
3	03
4	04
5	05
6	06
8	08
10	10
12	12
14	14
16	16

Maximum operating pressures and bend radii

	Ø 3	Ø 4	Ø 5	Ø 6	Ø 8	Ø 10	Ø 12	Ø 16
Max. pressure (bar)* at -40 ... +20°C	9	10	11	9	9	9	9	12
Min. bend radius	5	6	7	9	16	17	25	40

Maximum continuous working temperature: +60°C

* Multiply by factors in table below for use at higher temperatures

Operating pressure/temperature conversion factors

Working temperature	Factor
-40 ... +20°C	1,00
+30°C	0,85
+40°C	0,70
+50°C	0,60
+60°C	0,50

To calculate working pressures at various temperatures, multiply working pressure at -40 ... +20°C by factor given in table.

Maximum continuous working temperature: +60°C

Accessories

Tubing channels 			Tube clips – single sided 			Tube cutter 	
Model	Tube Ø	No. of channels	Model	Tube Ø	Number of tubes	Model	Description
100HA0600	6	10	34021804	6	1	M/3314	Cutter
100HA0800	8	10	34021904	6	2	39012010	Replacement blade (pack of 10)
100H61200	12	6	34021805	8	1	39012061	Replacement blade (1-off)
			34021905	8	2		
			34021806	10	1		
			34021906	10	2		
			34021807	12	1		
			34021907	12	2		
			34021508	16	1		

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- > **Port size:**
1/8, 1/4, 3/8 BSPT
- > **High degree of flexibility**
- > **PU Pneuflex coils are suitable for high mechanical deformations, machine tools, etc.**
- > **Very short diameter on windings**
- > **Coils are supplied complete with swivel fittings at both ends**



Technical features

Medium:

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

Operating pressure:

Refer to specific tubing type on the tables below

Tube Sizes:

6, 8, 10, 12 mm O/D

Maximum working lengths:

2, 4, 6, 8 m

Threads:

R1/8, R1/4, R3/8

Continuous temperature:

+60°C (+140°F)

Coils colour:

Red

Materials:

Tubing Coils: PUR

Body and nut: brass nickel plated

Protection spring: steel, zinc plated

Technical data

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

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

Operating pressure/temperature conversion factors

Working temperature	Factor
+30°C	0,85
+40°C	0,70
+50°C	0,60
+60°C	0,50

To calculate working pressures at various temperatures, multiply working pressure at +20°C by factor given in table. Maximum continuous working temperature: +60°C

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- > Ø 6 ... 12 mm
- > Strong and flexible
- > Available in a variety of different types to suit a wide range of applications



Technical features

Medium:

Compressed air, water, petrol, diesel fuel, paraffin and other liquids

Operating pressure range:

They are also suitable for use with compressed air up to a maximum working pressure of 10 bar (145 psi). The maximum working pressures quoted in these tables (see page 2) have been taken under ideal conditions with non-pulsating pressures when used with compression tube fittings

Ambient/Media temperature:

-20°C ... +100°C (-4 ... +212°F)

Material:

Hose: E90 nitrile rubber
 Braiding wire: galvanised steel
 Ferules: brass
 Tailpieces: copper

Option selector

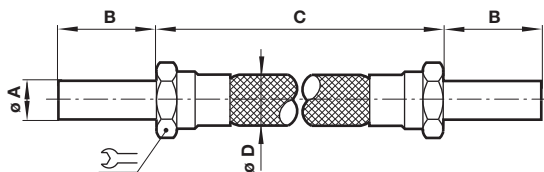
4200★00★★★★

O/D tube (mm)	Substitute
6	4
8	5
10	6
12	7

Standard length (mm)	Substitute
250	0250
300	0300
350	0350
400	0400
500	0500
600	0600
750	0750
1000	1000

Dimensions

Dimensions in mm
Projection/First angle



Installation notes:

1. Flexible hose is weakened when installed in a twisted position.
2. Ample bend radius should be allowed to avoid collapsing the hose.
3. When hose is installed in a flexing application remember that metal end fittings are not part of the flexible portion.
4. Use elbows or adaptors to eliminate excess hose bends.
5. Not suitable for use with Push-In fittings.

Ø A O/D tube	B	C	Ø D		Min bend radius	Max working pressure (bar)	Model
6	23	250	11	14	35	69	42004000250
6	23	300	11	14	35	69	42004000300
6	23	350	11	14	35	69	42004000350
6	23	400	11	14	35	69	42004000400
6	23	500	11	14	35	69	42004000500
6	23	600	11	14	35	69	42004000600
6	23	750	11	14	35	69	42004000750
6	23	1000	11	14	35	69	42004001000
8	26	250	14	17	39	69	42005000250
8	26	300	14	17	39	69	42005000300
8	26	350	14	17	39	69	42005000350
8	26	400	14	17	39	69	42005000400
8	26	500	14	17	39	69	42005000500
8	26	600	14	17	39	69	42005000600
8	26	750	14	17	39	69	42005000750
8	26	1000	14	17	39	69	42005001000

Ø A O/D tube	B	C	Ø D		Min bend radius	Max working pressure (bar)	Model
10	28	250	16	19	39	69	42006000250
10	28	300	16	19	39	69	42006000300
10	28	350	16	19	39	69	42006000350
10	28	400	16	19	39	69	4 006000400
10	28	500	16	19	39	69	42006000500
10	28	600	16	19	39	69	42006000600
10	28	750	16	19	39	69	42006000750
10	28	1000	16	19	39	69	42006001000
12	30	250	19	22	51	47	42007000250
12	30	300	19	22	51	47	42007000300
12	30	350	19	22	51	47	42007000350
12	30	400	19	22	51	47	42007000400
12	30	500	19	22	51	47	42007000500
12	30	600	19	22	51	47	42007000600
12	30	750	19	22	51	47	42007000750
12	30	1000	19	22	51	47	42007001000

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- > O/D 6 ... 14 mm
- > Design for applications within welding environment
- > Halogen free, self erasing and flame retardant special tubing out of PU conforming UL94 V2 to V0
- > Suitable for drag chain applications
- > Suitable for the use with Norgren Pneufit 10 series PUSH-IN fittings
- > Small bending radius, high flexibility
- > Extended range of applications due to high chemical durability
- > Free of paint sticking hindering material (like VMQ)



Technical features

Medium:

Compressed air, water

Operating pressure:

See table below

Standard length:

50 m

Colours available:

Black or blue

Ambient/Media temperature:

-20 ... 80°C (-4 ... 176°F) maximum

Material:

PU

Technical data

Outer Ø (mm)	Wall thickness (mm)	Inner Ø (mm)	Operating pressure at 23°C maximum *	Burst pressure at 23°C (bar)	Min. bend radius (mm)	Model Tube colour black	blue
6 ± 0,15	1,5 ± 0,15	3	25	75	7	NORWELD0706050	NORWELD0506050
8 ± 0,15	2 ± 0,15	4	25	75	10	NORWELD0708050	NORWELD0508050
10 ± 0,15	2 ± 0,15	6	15	50	15	NORWELD0710050	NORWELD0510050
12 ± 0,15	2 ± 0,15	8	12	40	20	NORWELD0712050	NORWELD0512050
14 ± 0,15	2 ± 0,15	10	12	40	30	NORWELD0714050	NORWELD0514050

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

Operating pressure/ temperature conversion factors

Working temperature	Factor
+30°C	0,75
+40°C	0,67
+50°C	0,58
+60°C	0,54
+70°C	0,52
+80°C	0,50

Accessories

Tube cutter



Model	Description
M/3314	Cutter
39012010	Replacement blade (pack of 10)
39012061	Replacement blade (1-off)

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