



# CHIYODA



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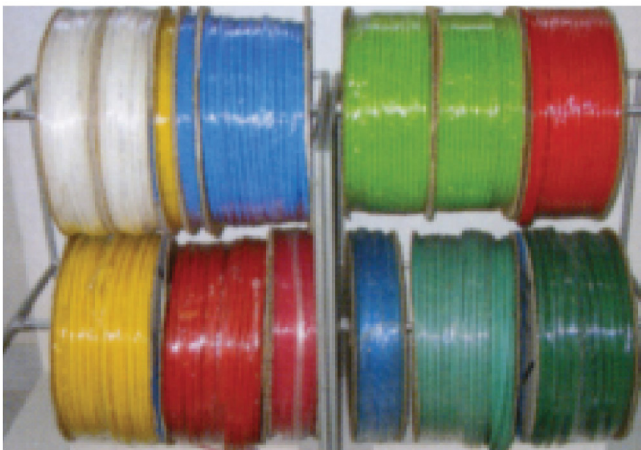
## สายยางและบาลานเซอร์ TUBE & BALANCER

สายยาง"ซีไฮดระ"ผลิตจากเนื้อวัสดุโพลียูเรเทน น้ำหนักเบา ทนทาน ไม้รั่วซึมง่าย เหมาะสำหรับใช้กับงานลมทุกประเภท มีหลายสีหลายขนาดให้เลือก นอกจากนี้ยังมีสายยางทนสะเก็ดไฟ,สายใช้งานสำหรับงานแม่พิมพ์ฯลฯ

### TUBING FOR PNEUMATIC COMPONENTS HYDROLYSIS RESISTANT POLYURETHANE TUBING

#### Main Features

- Hydrolysis resistant polyurethane tubing.
- Excellent flexibility. Softer than nylon tube and with rubber-like elasticity so bending radius is extremely small, thus, fatigue resistance to bending is very great.
- Superior mechanical strength and excellent abrasive resistance.
- Superior heat and cold resistance.
- Light Weight.
- Excellent tolerance.



#### Specifications

Media	Compressed Air-Water
Working Temp. Range	-5~60°C•0~40°C
Max. Burst Pressure	3MPa
Max. Working Pressure	0.8MPa
Working Vacuum Pressure	-100kPa
Recommended Fittings	
- Touch Connector Five	- Touch Connector Mini
- Touch Connector "Fuji"	- Touch Connector
- Sleeve Connector	- Hose Fitting

Model	O.D. x I.D. (mm)	Burst Pressure (Mpa)	Working Temperature (°C)	Min. Turning Radius(mm)	Tolerance (mm)	Weight (kg/mm)	Color
TE-4x2.5	4x2.5	3	Compressed Air -5~60 Water 0-40	5	± 0.1	0.009	BK ,LB
TE-6	6x4			12		0.019	W,C
TE-8	8x5			15		0.037	Y, LG
TE-10	10x6.5			25	+ 0.10	0.055	R, CBL
TE-12	12x8			28	- 0.15	0.075	G, OR

BK=Black, W=White, Y=Yellow, R=Red, G=Green,  
LB=Light Blue, C=Transparent, LG=Light Green, CBL=Trans Blue

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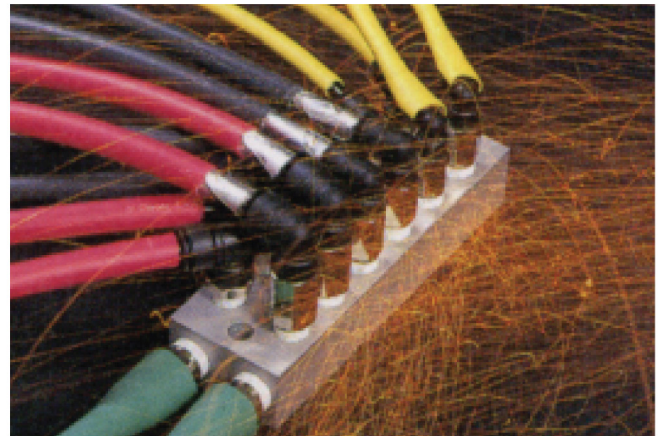
### TUBING FOR PNEUMATIC COMPONENTS L-FLEX ANTI-SPATTER PUR TUBING

#### Main Features

- L-Flex is specially designed for Anti-Spatter of welding machine. TE tube is covered by an olefinplastic (Flame Resistant type)
- L-Flex can be used for cooling water piping as well as pneumatic piping.
- Multi Core type are available upon request.
- Superior mechanical strength and excellent abrasive resistance.
- Superior heat and cold resistance.
- Light weight compared with rubber hose.
- For peeling of outer Jacket, C-18 cover peeler is recommended.

#### Specifications

Media	Compressed Air-Water
Working Temp. Range	-5~60°C•23~140°F
Max. Burst Pressure	3MPa
Max. Working Pressure	0.8MPa
Working Vacuum Pressure	-100kPa
Recommended Fittings	
- Touch Connector Five	- Hose Fitting
- Sleeve Connector	
- Touch Connector H type	



\* Above specification are for air application. For water application, The value at a temperature of 20°C(68°F)

Model	O.D. x I.O.D x L.D. (mm)	Min.Turning Radius(mm)	Weight (g/mm)	Color
LE-6	8X6X4	15	50	BK, W, Y, G, LB, R
LE-8	10X8X5	20	76	
LE-10	12X10X6.5	25	103	
LE-12	14X12X8	30	132	
TWIN L-FLEX				
*2-LE-6	8X6X4	15	100	
*2-LE-8	10X8X5	20	152	
*2-LE-10	12X10X6.5	25	206	
*2-LE-12	14X12X8	30	264	

BK=Black, W=White, Y=Yellow, G=Green, LB=Light Blue, R=Red

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### TUBING FOR PNEUMATIC COMPONENTS TE-AF ANTI-SPATTER TUBING

#### Main Features

- TE-AF was developed for robotic welding applications Where the tube is ejected to weld a pater. TE-AF can be connected with one-touch fittings without removing the outer jacket as with the LE series tubing.
- TE-AF is a Polyether base PUR material with of a special rubber material. The performance of this material complies with 94UL (Underwriters Laboratory) VO specification. When weld spatter comes in contact with the protective jacket material, the rubber becomes carbonized.
- Can be used for cooling water line and air piping
- Much more flexibility than Nylon tubing



#### Specifications

Media	Compressed Air-Water
Working Temp. Range	-5~60°C•0~50°C
Max. Burst Pressure	3MPa
Max. Working Pressure	0.8MPa-0.3MPa
Working Vacuum Pressure	-100kPa
Anti-Flaming Character	: Oxygen Index method 28 Equivalent of UL-94 V0

#### Operation Precautions

- This material will be carbonized when in contact with material over 500-degree C Intermittent use. It is not intended for use a constant environment of weld spatters at these temperatures
- Polyether base PUR is suitable for water applications and is hydrolysis resistant but this material is not suitable for treated water which contains chlorine
- The Oxygen index. Method No. of this material is 28. Density of oxygen on atmospheric is approx. 20. Therefore, this numerical value shows that this material does not burn easily
- Th material was tested in accordance with the UL94 VO specification at the material manufacturer's lab. While the performance of the material complies with the UL specification, it is not endorsed by UL.

Model	O.D.xL.D. (mm)	Tolerance (mm)	Min. Turning Radius(mm)	Color
TE-6-AF	6.0x4.0	± 0.1	15	BK
TE-8-AF	8.0x5.0		20	Y
TE-10-AF	10.0x6.5	+0.1-0.15	25	W
TE-12-AF	12.0x8.0		30	R
				G
				LB

BK=Black, Y=Yellow, W=White, R=Red, G=Green, LB=Light Blue

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### TUBING FOR PNEUMATIC COMPONENTS POLYURETHAN SPIRAL TUBING TPS SERIES

#### Main Features

- TPS Series is a coiled version of TP tube. It is suitable for the piping of movable part. A small spiral diameter is completed in a small space without distorting the joints.
- Excellent flexibility. Softer than nylon tube and with rubber-like elasticity so bending radius is extremely small, thus, fatigue resistance to bending is very great.
- Superior mechanical strength an excellent abrasive resistance
- Superior heat and cold resistance.
- Oil resistance. Resistant to spindle oil, machine oil and other oil and other oils.
- Light weight.
- Custom size and material are available.

#### Specifications

Media	Compressed Air-Water
Working Temp. Range	-5~60°C • 0~40°C
Max. Burst Pressure	3MPa
Max. Working Pressure	0.8MPa
Working Vacuum Pressure	-100kPa
Recommended Fittings	
- Touch Connector Five	- Touch Connector Mini
- Touch Connector "Fuji"	- Touch Connector
- Sleeve Connector	- Hose Fitting



\*The value at a temperature of 20°C(68°F)

#### Operation Precautions

- Do not use knives or scissors to cut the tubing. As exact cross section is critical to performance, please use our tube cutter.
- Tps Series designed for using as pneumatic piping. We do not recommend you to use TPS Series for other media. If you would like to use TPS Series for other media, the user assumes all risk and liabilities.
- If you have any question, please contact your local distributor.

TUBING FOR PNEUMATIC COMPONENTS  
POLYURETHAN SPIRAL TUBING TPS SERIES

# TPS - 8 - 30

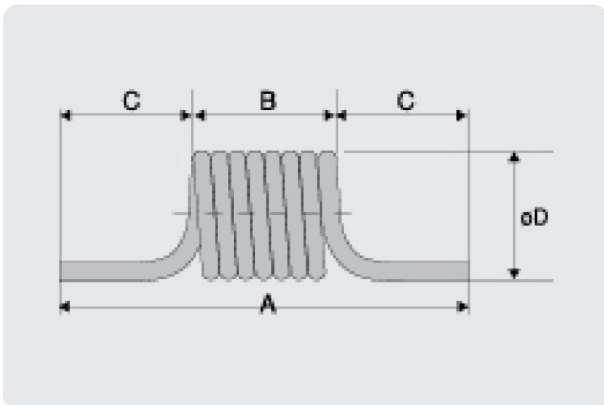
Polyurethane

Tube O.D (mm)

No. of turns

Model	Tube Used	Service Length (mm)	A (mm)	B (mm)	C (mm)	ØD (mm)	Model	Tube Used	Service Length (mm)	A (mm)	B (mm)	C (mm)	ØD (mm)
*TPS-4-5	TE-4	500	420	20	200	21	*TPS-8-5	TE-8	600	440	40	200	42
*TPS-4-10	TE-4	600	440	40	200	21	*TPS-8-10	TE-8	800	480	50	200	42
TPS-4-15	TE-4	700	460	60	200	21	TPS-8-15	TE-8	1000	520	120	200	42
*TPS-4-20	TE-4	800	480	80	200	21	*TPS-8-20	TE-8	1200	560	160	200	42
*TPS-4-25	TE-4	900	500	100	200	21	*TPS-8-25	TE-8	1400	600	200	200	42
TPS-4-30	TE-4	1000	520	120	200	21	TPS-8-30	TE-8	1600	640	240	200	42
*TPS-4-35	TE-4	1100	540	140	200	21	*TPS-8-35	TE-8	1800	680	280	200	42
*TPS-4-40	TE-4	1200	560	160	200	21	*TPS-8-40	TE-8	2000	720	320	200	42
TPS-4-45	TE-4	1300	580	180	200	21	TPS-8-45	TE-8	2200	760	360	200	42
*TPS-4-50	TE-4	1400	600	200	200	21	*TPS-8-50	TE-8	2400	800	400	200	42
*TPS-4-55	TE-4	1500	620	220	200	21	*TPS-8-55	TE-8	2600	840	440	200	42
*TPS-4-60	TE-4	1600	640	240	200	21	*TPS-8-60	TE-8	2800	880	480	200	42
*TPS-6-5	TE-6	550	430	30	200	38	*TPS-10-5	TE-10	650	450	50	200	52
*TPS-6-10	TE-6	700	460	60	200	38	*TPS-10-10	TE-10	900	500	100	200	52
TPS-6-15	TE-6	850	490	90	200	38	TPS-10-15	TE-10	1150	550	150	200	52
*TPS-6-20	TE-6	1000	520	120	200	38	*TPS-10-20	TE-10	1400	600	200	200	52
*TPS-6-25	TE-6	1150	550	150	200	38	*TPS-10-25	TE-10	1650	650	250	200	52
TPS-6-30	TE-6	1300	580	180	200	38	TPS-10-30	TE-10	1900	700	300	200	52
*TPS-6-35	TE-6	1450	610	210	200	38	*TPS-10-35	TE-10	2150	750	350	200	52
*TPS-6-40	TE-6	1600	640	240	200	38	*TPS-10-40	TE-10	2400	800	400	200	52
TPS-6-45	TE-6	1750	670	270	200	38	TPS-10-45	TE-10	2650	850	450	200	52
*TPS-6-50	TE-6	1900	700	300	200	38	*TPS-10-50	TE-10	2900	900	500	200	52
*TPS-6-55	TE-6	2050	730	330	200	38	*TPS-10-55	TE-10	3150	950	550	200	52
*TPS-6-60	TE-6	2200	760	360	200	38	*TPS-10-60	TE-10	3400	1000	600	200	52
							*TPS-12-5	TE-12	700	460	60	200	67
							*TPS-12-10	TE-12	1000	520	120	200	67
							TPS-12-15	TE-12	1300	580	180	200	67
							*TPS-12-20	TE-12	1600	640	240	200	67
							*TPS-12-25	TE-12	1900	700	300	200	67
							TPS-12-30	TE-12	2200	760	360	200	67
							*TPS-12-35	TE-12	2500	820	420	200	67
							*TPS-12-40	TE-12	2800	880	480	200	67
							TPS-12-45	TE-12	3100	940	540	200	67
							*TPS-12-50	TE-12	3400	1000	600	200	67
							*TPS-12-55	TE-12	3700	1060	660	200	67

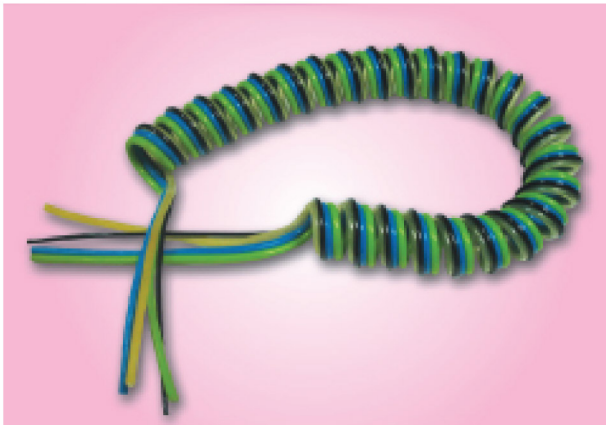
Dimensions



\*Marked items are not standard stock items,  
Please ask the delivery schedule to your local distributor.

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### Main Features

- Multi-Spiral tube is made by bonding TP tube. It is suitable for centralized piping in expanding parts. also it is suitable for moving and expanding parts of pneumatic components.
- Easily to separated and arranged as desired
- Excellent flexibility. Softer than nylon tube and with rubber-like elasticity so bending radius is extremely small, thus, fatigue resistance to bending is very great.
- Superior mechanical strength an excellent abrasive resistance.
- Superior heat and cold resistance.
- Oil resistance. Resistant to spindle oil, machine oil and other oil and other oils.
- Light weight.

## TUBING FOR PNEUMATIC COMPONENTS MULTI SPIRAL POLYURETHANE TUBING

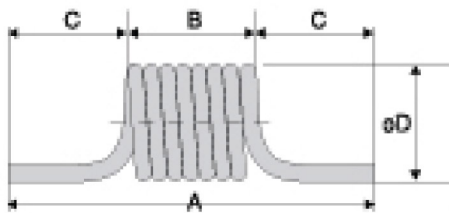
### Specifications

Media	Compressed Air-Water
Working Temp. Range	-5~60°C (23-140) °F
Max. Burst Pressure	3MPa
Max. Working Pressure	0.8MPa
Working Vacuum Pressure	-100kPa
Recommended Fittings	
- Touch Connector Five	- Touch Connector Mini
- Touch Connector "Fuji"	- Touch Connector
- Sleeve Connector	- Hose Fitting

### Operation Precautions

- Do not use knives or scissors to cut the tubing As exact cross section is critical to performance, please use tube cutter.
- MTP tubing was designed for using as pneumatic piping We do not recommed you touse MTP for other media the user assumes all risk and liabilities.
- if you have any question please contact your local distributor.

## TUBING FOR PNEUMATIC COMPONENTS MULTI SPIRAL POLYURETHANE TUBING

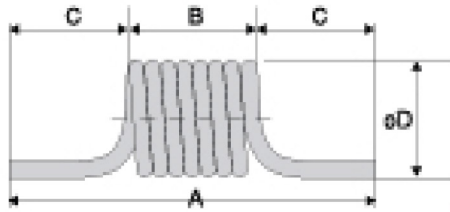


**3 - MPS - 4 - 5 S**

Core      Multi Spiral-Polyurethane Tubing      Tube O.D (mm)      No. of turns      Standard Color

Model	Tube Used	Service Length (mm)	A	B	C	ØD	Model	Tube Used	Service Length (mm)	A	B	C	ØD
2-MPS-4-5S	TP-4	529	443	43	200	21	2-MPS-4-5S	TP-4	529	443	43	200	21
2-MPS-4-10S	TP-4	658	486	86	200	21	2-MPS-4-10S	TP-4	658	486	86	200	21
2-MPS-4-15S	TP-4	787	529	129	200	21	2-MPS-4-15S	TP-4	787	529	129	200	21
2-MPS-4-20S	TP-4	916	579	172	200	21	2-MPS-4-20S	TP-4	916	579	172	200	21
*2-MPS-4-25S	TP-4	1045	615	215	200	21	*2-MPS-4-25S	TP-4	1045	615	215	200	21
*2-MPS-4-30S	TP-4	1174	658	258	200	21	*2-MPS-4-30S	TP-4	1174	658	258	200	21
*2-MPS-4-35S	TP-4	1303	701	301	200	21	*2-MPS-4-35S	TP-4	1303	701	301	200	21
*2-MPS-4-40S	TP-4	1432	744	344	200	21	*2-MPS-4-40S	TP-4	1432	744	344	200	21
*2-MPS-4-45S	TP-4	1561	784	387	200	21	*2-MPS-4-45S	TP-4	1561	784	387	200	21
*2-MPS-4-50S	TP-4	1690	830	430	200	21	*2-MPS-4-50S	TP-4	1690	830	430	200	21
2-MPS-6-5S	TP-6	585	465	65	200	38	2-MPS-6-5S	TP-6	585	465	65	200	38

TUBING FOR PNEUMATIC COMPONENTS  
MULTI SPIRAL POLYURETHANE TUBING



**3** - **MPS** - **4** - **5** **S**

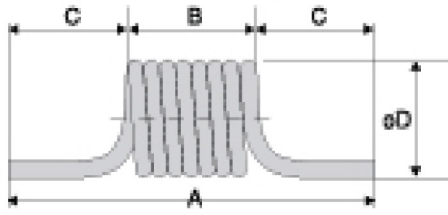
Core Multi Spiral-Polyurethane Tubing Tube O.D (mm) No. of turns Standard Color

Model	Tube Used	Service Length (mm)	A	B	C	ØD	Model	Tube Used	Service Length (mm)	A	B	C	ØD
2-MPS-6-10S	TP-6	790	530	130	200	38	*3-MPS-4-5S	TP-4	563	465	65	200	27
2-MPS-6-15S	TP-6	985	595	195	200	38	*3-MPS-4-10S	TP-4	723	529	129	200	27
2-MPS-6-20S	TP-6	1180	660	260	200	38	*3-MPS-4-15S	TP-4	885	594	194	200	27
*2-MPS-6-25S	TP-6	1375	725	325	200	38	*3-MPS-4-20S	TP-4	1045	656	258	200	27
*2-MPS-6-30S	TP-6	1570	790	390	200	38	*3MPS-4-25S	TP-4	1208	723	323	200	27
*2-MPS-6-35S	TP-6	1765	855	455	200	38	*3MPS-4-30S	TP-4	1368	787	387	200	27
*2-MPS-6-40S	TP-6	1960	920	520	200	38	*3MPS-4-35S	TP-4	1530	852	452	200	27
*2-MPS-6-45S	TP-6	2155	985	585	200	38	*3MPS-4-40S	TP-4	1690	916	515	200	27
*2-MPS-8-5S	TP-8	670	490	90	200	42	*3MPS-4-45S	TP-4	1853	981	581	200	27
*2-MPS-8-10S	TP-8	940	580	180	200	42	*3-MPS-6-5S	TP-6	645	498	98	200	44
*2-MPS-8-15S	TP-8	1210	670	270	200	42	*3-MPS-6-10S	TP-6	888	595	195	200	44
*2-MPS-8-20S	TP-8	1480	760	360	200	42	*3-MPS-6-15S	TP-6	1133	693	293	200	44
*2-MPS-8-25S	TP-8	1750	850	450	200	42	*3-MPS-6-20S	TP-6	1375	790	390	200	44
*2-MPS-8-30S	TP-8	2020	940	540	200	42	*3-MPS-6-25S	TP-6	1620	888	488	200	44
*2-MPS-8-35S	TP-8	2290	1030	630	200	42	*3-MPS-6-30S	TP-6	1863	965	585	200	44
*2-MPS-8-40S	TP-8	2560	1120	720	200	42	*3-MPS-6-35S	TP-6	2108	1083	683	200	44
*2-MPS-8-45S	TP-8	2830	1210	810	200	42	*3-MPS-6-40S	TP-6	2350	1180	780	200	44
*2-MPS-10-5S	TP-10	739	513	113	200	52	*3-MPS-8-5S	TP-8	738	535	135	200	50
*2-MPS-10-10S	TP-10	1078	626	226	200	52	*3-MPS-8-10S	TP-8	1075	670	270	200	50
*2-MPS-10-15S	TP-10	1417	739	339	200	52	*3-MPS-8-15S	TP-8	1413	805	405	200	50
*2-MPS-10-20S	TP-10	1756	852	462	200	52	*3-MPS-8-20S	TP-8	1750	940	540	200	50
*2-MPS-10-25S	TP-10	2095	965	565	200	52	*3-MPS-8-25S	TP-8	2088	1075	675	200	50
*2-MPS-10-30S	TP-10	2434	1078	678	200	52	*3-MPS-10-5S	TP-10	825	570	170	200	63
*2-MPS-12-5S	TP-12	805	535	135	200	67	*3-MPS-10-10S	TP-10	1248	739	339	200	63
*2-MPS-12-10S	TP-12	1210	670	270	200	67	*3-MPS-10-15S	TP-10	1673	909	509	200	63
*2-MPS-12-15S	TP-12	1715	805	405	200	67	*3-MPS-10-20S	TP-10	2095	1078	678	200	63
*2-MPS-12-20S	TP-12	2020	940	540	200	67	*3-MPS-12-5S	TP-12	908	603	203	200	84
*2-MPS-12-25S	TP-12	2425	1075	675	200	67	*3-MPS-12-10S	TP-12	1413	805	405	200	84
							*3-MPS-12-15S	TP-12	1820	1008	608	200	84
							*4-MPS-4-5S	TP-4	529	443	43	200	35
							*4-MPS-4-10S	TP-4	658	486	86	200	35
							*4-MPS-4-15S	TP-4	787	529	128	200	35
							*4-MPS-4-20S	TP-4	916	572	172	200	35
							*4-MPS-4-25S	TP-4	1045	615	215	200	35
							*4-MPS-4-30S	TP-4	1174	658	258	200	35
							*4-MPS-4-35S	TP-4	1303	701	301	200	35
							*4-MPS-4-40S	TP-4	1432	744	344	200	35
							*4-MPS-4-45S	TP-4	1560	787	387	200	35

\*Marked items are not standard stock items,  
Please ask the delivery schedule to your local distributor



TUBING FOR PNEUMATIC COMPONENTS  
MULTI SPIRAL POLYURETHANE TUBING



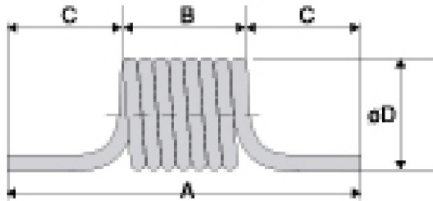
**3** - **MPS** - **4** - **5** **S**

Core Multi Spiral-Polyurethane Tubing Tube O.D (mm) No. of turns Standard Color

Model	Tube Used	Service Length (mm)	A	B	C	ØD	Model	Tube Used	Service Length (mm)	A	B	C	ØD
*4-MPS-6-5S	TP-6	595	465	65	200	56	*5-MPS-6-5S	TP-6	645	498	98	200	56
*4-MPS-6-10S	TP-6	790	530	130	200	56	*5-MPS-6-10S	TP-6	888	595	195	200	56
*4-MPS-6-15S	TP-6	965	595	195	200	56	*5-MPS-6-15S	TP-6	1133	693	293	200	56
*4-MPS-6-20S	TP-6	1180	660	260	200	56	*5-MPS-6-20S	TP-6	1375	790	390	200	56
*4-MPS-6-25S	TP-6	1375	725	325	200	56	*5-MPS-6-25S	TP-6	1620	888	488	200	56
*4-MPS-6-30S	TP-6	1570	790	390	200	56	*5-MPS-6-30S	TP-6	1863	985	585	200	56
*4-MPS-6-35S	TP-6	1765	855	455	200	56	*5-MPS-6-35S	TP-6	2108	1083	683	200	56
*4-MPS-6-40S	TP-6	1960	920	520	200	56	*5-MPS-6-40S	TP-6	2350	1180	780	200	56
*4-MPS-6-45S	TP-6	2155	985	585	200	56	*5-MPS-8-5S	TP-8	738	535	135	200	73
*4-MPS-8-5S	TP-8	670	490	90	200	66	*5-MPS-8-10S	TP-8	1075	670	270	200	73
*4-MPS-8-10S	TP-8	940	580	180	200	66	*5-MPS-8-15S	TP-8	1413	805	405	200	73
*4-MPS-8-15S	TP-8	1210	670	270	200	66	*5-MPS-8-20S	TP-8	1750	940	540	200	73
*4-MPS-8-20S	TP-8	1480	760	360	200	66	*5-MPS-8-25S	TP-8	2088	1075	675	200	73
*4-MPS-8-25S	TP-8	1750	850	450	200	66	*5-MPS-10-5S	TP-10	825	570	170	200	97
*4-MPS-8-30S	TP-8	2020	940	540	200	66	*5-MPS-10-10S	TP-10	1248	739	339	200	97
*4-MPS-8-35S	TP-8	2290	1030	630	200	66	*5-MPS-10-15S	TP-10	1673	909	509	200	97
*4-MPS-8-40S	TP-8	2560	1120	720	200	66	*5-MPS-10-20S	TP-10	2095	1078	678	200	97
*4-MPS-8-45S	TP-8	2830	1210	810	200	66	*5-MPS-12-5S	TP-12	908	603	203	200	121
*4-MPS-10-5S	TP-10	739	513	113	200	83	*5-MPS-12-10S	TP-12	1413	805	405	200	121
*4-MPS-10-10S	TP-10	1078	626	226	200	83	*5-MPS-12-15S	TP-12	1920	1008	608	200	121
*4-MPS-10-15S	TP-10	1417	739	339	200	83	*6-MPS-4-5S	TP-4	563	465	65	200	35
*4-MPS-10-20S	TP-10	1756	852	462	200	83	*6-MPS-4-10S	TP-4	723	529	129	200	35
*4-MPS-10-25S	TP-10	2095	965	565	200	83	*6-MPS-4-15S	TP-4	885	594	194	200	35
*4-MPS-10-30S	TP-10	2434	1078	678	200	83	*6-MPS-4-20S	TP-4	1045	658	258	200	35
*4-MPS-12-5S	TP-12	805	535	135	200	108	*6-MPS-4-25S	TP-4	1208	723	323	200	35
*4-MPS-12-10S	TP-12	1210	670	270	200	108	*6-MPS-4-30S	TP-4	1368	787	387	200	35
*4-MPS-12-15S	TP-12	1615	805	405	200	108	*6-MPS-4-35S	TP-4	1530	852	452	200	35
*4-MPS-12-20S	TP-12	2020	940	540	200	108	*6-MPS-4-40S	TP-4	1690	916	516	200	35
*4-MPS-12-25S	TP-12	2425	1075	675	200	108	*6-MPS-4-45S	TP-4	1853	981	581	200	35
*5-MPS-4-5S	TP-4	563	465	65	200	34	*6-MPS-8-5S	TP-8	645	498	96	200	58
*5-MPS-4-10S	TP-4	723	529	129	200	34	*6-MPS-8-10S	TP-8	888	595	195	200	58
*5-MPS-4-15S	TP-4	885	594	194	200	34	*6-MPS-8-15S	TP-8	1133	693	293	200	58
*5-MPS-4-20S	TP-4	1045	658	258	200	34	*6-MPS-8-20S	TP-8	1375	790	390	200	58
*5-MPS-4-25S	TP-4	1208	723	323	200	34	*6-MPS-8-25S	TP-8	1620	888	488	200	58
*5-MPS-4-30S	TP-4	1368	787	387	200	34	*6-MPS-8-30S	TP-8	1863	985	585	200	58
*5-MPS-4-35S	TP-4	1530	852	452	200	34	*6-MPS-8-35S	TP-8	2108	1083	683	200	58
*5-MPS-4-40S	TP-4	1690	916	516	200	34	*6-MPS-8-40S	TP-8	2350	1180	780	200	58
*5-MPS-4-45S	TP-4	1853	981	581	200	34							

\*Marked items are not standard stock items, Please ask the delivery schedule to your local distributor.

TUBING FOR PNEUMATIC COMPONENTS  
MULTI SPIRAL POLYURETHANE TUBING



**3** - **MPS** - **4** - **5** **S**

Core      Multi Spiral-  
Polyurethane Tubing      Tube  
O.D (mm)      No.  
of turns      Standard  
Color

Model	Tube Used	Service Length (mm)	A	B	C	ØD	Model	Tube Used	Service Length (mm)	A	B	C	ØD
*6-MPS-8-5S	TP-8	738	535	135	200	75	*8-MPS-4-5S	TP-4	572	486	86	200	42
*6-MPS-8-10S	TP-8	1075	670	270	200	75	*8-MPS-4-10S	TP-4	744	572	172	200	42
*6-MPS-8-15S	TP-8	1413	805	405	200	75	*8-MPS-4-15S	TP-4	916	658	258	200	42
*6-MPS-8-20S	TP-8	1750	940	540	200	75	*8-MPS-4-20S	TP-4	1088	744	344	200	42
*6-MPS-8-25S	TP-8	2068	1075	675	200	75	*8-MPS-4-25S	TP-4	1280	830	430	200	42
*6-MPS-10-5S	TP-10	825	570	170	200	100	*8-MPS-4-30S	TP-4	1432	916	516	200	42
*6-MPS-10-10S	TP-10	1248	739	339	200	100	*8-MPS-4-35S	TP-4	1604	1002	602	200	42
*6-MPS-10-15S	TP-10	1673	909	509	200	100	*8-MPS-4-40S	TP-4	1776	1088	688	200	42
*6-MPS-10-20S	TP-10	2095	1078	678	200	100	*8-MPS-4-45S	TP-4	1948	1174	774	200	42
*6-MPS-12-5S	TP-12	908	603	203	200	124	*8-MPS-6-5S	TP-6	660	530	130	200	67
*6-MPS-12-10S	TP-12	1413	805	405	200	124	*8-MPS-6-10S	TP-6	920	660	260	200	67
*4-MPS-12-15S	TP-12	1920	1008	608	200	124	*8-MPS-6-15S	TP-6	1180	790	390	200	67
*7-MPS-4-5S	TP-4	572	496	86	200	41	*8-MPS-6-20S	TP-6	1440	920	520	200	67
*7-MPS-4-10S	TP-4	744	572	172	200	41	*8-MPS-6-25S	TP-6	1700	1050	650	200	67
*7-MPS-4-15S	TP-4	916	658	258	200	41	*8-MPS-6-30S	TP-6	1960	1180	780	200	67
*7-MPS-4-20S	TP-4	1088	744	344	200	41	*8-MPS-8-5S	TP-8	760	580	180	200	92
*7-MPS-4-25S	TP-4	1260	830	430	200	41	*8-MPS-8-10S	TP-8	1120	760	360	200	92
*7-MPS-4-30S	TP-4	1432	916	516	200	41	*8-MPS-8-15S	TP-8	1480	940	540	200	92
*7-MPS-4-35S	TP-4	1604	1002	602	200	41	*8-MPS-8-20S	TP-8	1840	1120	720	200	92
*7-MPS-4-40S	TP-4	1778	1088	688	200	41	*8-MPS-10-5S	TP-10	852	626	226	200	116
*7-MPS-4-45S	TP-4	1948	1174	774	200	41	*8-MPS-10-10S	TP-10	1304	852	452	200	116
*7-MPS-6-5S	TP-6	660	530	130	200	65	*8-MPS-10-15S	TP-10	1756	1078	678	200	116
*7-MPS-6-10S	TP-6	920	660	260	200	65	*8-MPS-12-5S	TP-12	940	670	270	200	148
*7-MPS-6-15S	TP-6	1180	790	390	200	65	*8-MPS-12-10S	TP-12	1480	940	540	200	148
*7-MPS-6-20S	TP-6	1440	920	520	200	65	*8-MPS-12-15S	TP-12	1912	1158	756	200	148
*7-MPS-6-25S	TP-6	1700	1050	650	200	65							
*7-MPS-6-30S	TP-6	1960	1180	780	200	65							
*7-MPS-8-5S	TP-8	760	580	180	200	90							
*7-MPS-8-10S	TP-8	1120	760	360	200	90							
*7-MPS-8-15S	TP-8	1480	940	540	200	90							
*7-MPS-8-20S	TP-8	1840	1120	720	200	90							
*7-MPS-10-5S	TP-10	852	626	226	200	113							
*7-MPS-10-10S	TP-10	1304	852	452	200	113							
*7-MPS-10-15S	TP-10	1756	1078	678	200	113							
*7-MPS-12-5S	TP-12	940	670	270	200	145							
*7-MPS-12-10S	TP-12	1480	940	540	200	145							
*7-MPS-12-15S	TP-12	1912	1158	756	200	145							

\* The dimensions will vary slightly from the chart above due to the character of the material.

\* Marked items are not standard stock items, Please ask the delivery schedule to your local distributor.

## สายยางและบาลานเซอร์ TUBE & BALANCER

สายยาง"ซีไฮดระ"ผลิตจากเนื้อวัสดุโพลียูเรเทน น้ำหนักเบา ทนทาน ไม่รั่วซึมง่าย เหมาะสำหรับใช้กับงานลมทุกประเภท มีหลายสีหลายขนาดให้เลือก นอกจากนี้ยังมีสายยางทนสะเก็ดไฟ, สายใช้งานสำหรับงานแม่พิมพ์ ฯลฯ

### TUBING FOR PNEUMATIC COMPONENTS SUPER HYDROLYSIS RESISTANT POLYURETHANE TUBING P-FLEX Series

#### Main Features

- Special Hydrolysis resistant polyurethane tube. Suitable for cooling water.
- Excellent flexibility. Softer than nylon tube and with rubber-like elasticity so bending radius is extremely small, thus, fatigue resistance to bending is very great.
- Superior mechanical strength and excellent abrasive resistance.
- Superior heat and cold resistance.
- Oil resistance. Resistant to spindle oil, machine oil and other oils.
- Light Weight.
- Excellent tolerance.



#### Specifications

Media	Compressed Air-Water
Working Temp. Range	0~80°C (32~175°F)
Max. Burst Pressure	3MPa
Max. Working Pressure	0.3MPa
Recommended fitting	Thyme push connector

Model	O.D. x I.D. (mm)	Burst Pressure (Mpa)	Working Temperature (°C)	Min. Turning Radius(mm)	Tolerance (mm)	Weight (kg/mm)	Color
8P	8x5	3	0~80°	15	+0.05-0.2	0.037	CB CP
10P	10x6.5			25	+0.1-0.2	0.055	
12P	12x6			28		0.076	

CB=Trans Blue, CP=Trans Pink

## สายยางและบาลานเซอร์ TUBE & BALANCER

สายยาง"ซีไฮดระ"ผลิตจากเนื้อวัสดุโพลียูเรเทน น้ำหนักเบา ทนทาน ไม้รั่วซึมง่าย เหมาะสำหรับใช้กับงานลมทุกประเภท มีหลายสีหลายขนาดให้เลือก นอกจากนี้ยังมีสายยางทนสะเก็ดไฟ, สายใช้งานสำหรับงานแม่พิมพ์ ฯลฯ

### HOSE FOR AIR TOOLS POLYURETHANE BRAIDED HOSE

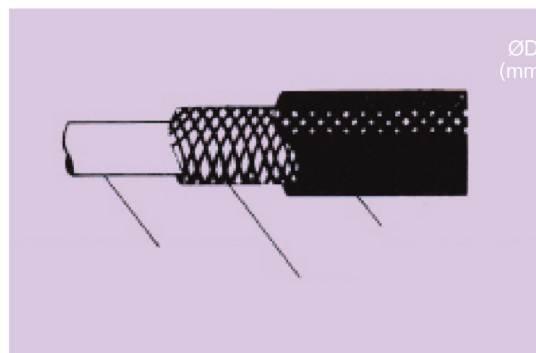
#### Main Features

- Uniform implantation of a sturdy nylon reinforcement produces out-standing durability.
- Just insert the ribbed taper into the hose and tighten the cap nut.
- Excellent flexibility .Softer than nylon tube and with rubber-like slasticity so bending radius is extremely small, thus, fatigue resistance to bending is very great.
- Superior mechanical strength and excellent abrasive resistance.
- Superior heat and cold resistance.
- Oil resistance
- Light Weight.

#### Specifications

Media	Compressed Air-Water
Working Temp. Range	5~60°C (23~140°F)
Max. Burst Pressure	6MPa
Max. Working Pressure	1.5MPa
Working Vacuum Pressure	- 100kPa
Recommended fitting	Hose fitting

Media	Compressed Air-Water
Working Temp. Range	5~60°C (23~140°F)
Max. Burst Pressure	9MPa
Max. Working Pressure	1.5MPa
Working Vacuum Pressure	- 100kPa
Recommended fitting	Hose fitting



\*The value at a temperature of 20°C (68°F)

Model	O.D. x I.D. (mm)	Burst Pressure (Mpa)	Working Temperature (°C)	Min. Turning Radius(mm)	Tolerance (mm)	Weight (kg/mm)	Color
AH-6	6x9	6	- 5~60	45	± 0.2	0.045	OR
AH-6.5	6.5x10			50		0.055	
AH-8	8x12			60		0.076	
AH-11	11x16			80		0.132	
BH-6	6x9	6	- 5~60	45	± 0.3	0.045	R
BH-6.5	6.5x10			50		0.055	
BH-8	8x12			60		0.076	
LH-6	6x9	6	- 5~60	45	± 0.2	0.045	LG
LH-6.5	6.5x10			50		0.055	
LH-8	8x12			60		0.076	
ZH-6	6x9	9	- 5~60	45	± 0.2	0.045	Y

OR=Orange, R=Red, LG=Light Green, Y=Yellow

## สายยางและบาลานเซอร์ TUBE & BALANCER

สายยาง"ซีไฮดระ"ผลิตจากเนื้อวัสดุโพลียูเรเทน น้ำหนักเบา ทนทาน ไม่รั่วซึมง่าย เหมาะสำหรับใช้กับงานลมทุกประเภท มีหลายสีหลายขนาดให้เลือก นอกจากนี้ยังมีสายยางทนสะเก็ดไฟ, สายใช้งานสำหรับงานแม่พิมพ์ ฯลฯ

### HOSE FOR AIR TOOLS SPIRAL AIR HOSE

#### Main Features

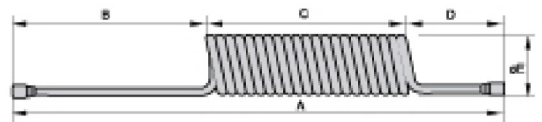
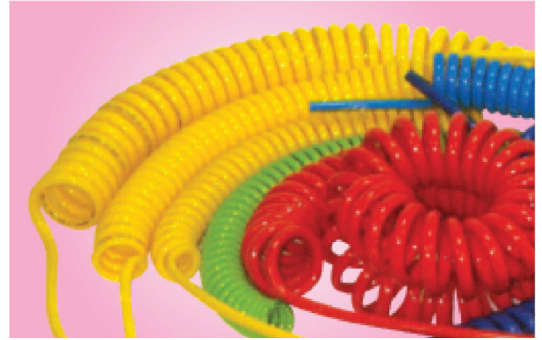
- Excellent flexibility. Softer than nylon tube and excellent in restorability to original shape.
- Superior mechanical strength and excellent abrasive resistance.
- Superior heat and cold resistance.
- Oil resistance.
- Light Weight.

#### Specifications

Media	Compressed Air-Water
Working Temp. Range	5~60°C (23~140°F)
Max. Burst Pressure	3MPa
Max. Working Pressure	0.8MPa
Recommended fitting	Hose fitting

\*The value at a temperature of 20c (68F)

\*Custom size and color are be available as custom model.



Model	Hose Size I.D.xO.D	Service Length (mm)	Hose Length (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Standard Fittings	Weight (g)
TPS-803-0105Y	5x8	2,000	2,500	780	500	180	100	42	G1/4	190
TPS-805-0105Y	5x8	4,000	5,000	1,000	500	400	100	42	G1/4	280
TPS-808-0105Y	5x8	6,000	7,500	1,230	500	630	100	42	G1/4	370
TPS-810-0105Y	5x8	8,000	10,000	1,400	500	800	100	42	G1/4	460
TPS-1003-0105Y	6.5x10	2,000	2,500	785	500	185	100	52	G1/4	230
TPS-1005-0105Y	6.5x10	4,000	5,000	1,000	500	400	100	52	G1/4	360
TPS-1008-0105Y	6.5x10	6,000	7,500	1,235	500	535	100	52	G1/4	500
TPS-1010-0105Y	6.5x10	8,000	10,000	1,400	500	800	100	52	G1/4	630
TPS-1203-0105Y	8x12	2,000	2,500	780	500	180	100	65	G1/4	320
TPS-1205-0105Y	8x12	4,000	5,000	990	500	390	100	65	G1/4	510
TPS-1208-0105Y	8x12	6,000	7,500	1,190	500	590	100	65	G1/4	700
TPS-1210-0105Y	8x12	8,000	10,000	1,380	500	780	100	65	G1/4	880
TPS-1603-0105Y	11x15	2,000	2,500	720	500	120	100	108	Rc1/2	580
TPS-1605-0105Y	11x15	4,000	5,000	840	500	240	100	108	Rc1/2	900
TPS-1608-0105Y	11x15	6,000	7,500	1,000	500	400	100	108	Rc1/2	1200
TPS-1610-0105Y	11x15	8,000	10,000	1,170	500	570	100	108	Rc1/2	1500

## สายยางและบาลานเซอร์

### TUBE & BALANCER

#### ตัวตัดสายลม / TUBE CUTTER

##### Main Features

- This cutter allows plastic tube to be cut cleanly and at right angles. Tube up to 16mm. Dis can be accommodated.

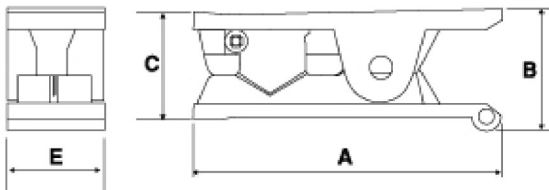
##### Operation Precautions

- Please do not place the finger when you cut the tube
- Please check regular and exchange the blade when it worsened

##### Specifications

Tube used	3 - 16 mm
Tube used Materials	Polyurethane, Nylon

Model	A	B	C	E	Weight (g)
TC-16	80	31.5	27.5	25	35



## สายยางและบาลานเซอร์

### TUBE & BALANCER

เพิ่มความสะดวกรวดเร็วกว่าบาลานเซอร์แบบธรรมดา คือนอกจากจะแขวนเครื่องมือแล้วยังเป็นสายลมในตัว ซึ่งต่อเข้ากับเครื่องมือได้ ทำจากอลูมิเนียม แข็งแรงทนทาน สามารถปรับแรงดึงที่ตัวเครื่อง โดยไม่ต้องใช้เครื่องมือใดๆ เหมาะสำหรับโรงงานประกอบต่างๆ

##### Main Features

- The new Magahose Balancer generates the maximum performance of pneumatic tools due to the newly designed 8x10.5mm polyurethens braided hose. This provides much increased air flow.
- The new Magahose Balancer has a dial type torque adjustment. This eliminates the accidents associate with key or tool operated balancers when adjusted after installation.
- The main body and dial are aluminum die cast to insure high derability for accidental impact with other balancers. The springs are of superior quality and have been tested under loaded to 300,000 cycles.

## MEGA HOSE BALANCER

##### Specifications

Model	MHB-83-3
Media	Compressed Air
Max. Working Pressure	1MPa
Working Temp. Range	0~60°C (23-142°F)
Capacity	9.8 - 29.4N (2.2-6.6Lbs)
Stroke	1.3 m.
Hose	MH-8 (8X10.5mm) (ID.5/16")
Weight	2.5kg (5.5Lbs)

