



特扶利五金制品(上海)有限公司
TOFLE FLEXIBLE METAL HOSE (SHANGHAI) CO., INC.

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金属软管
Metal Flexible Tubes



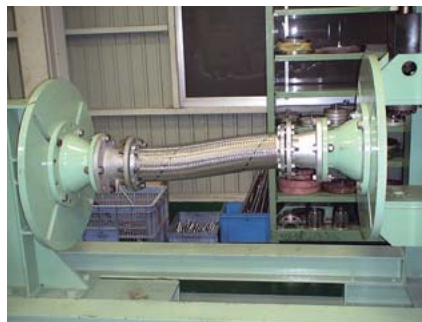
PTFE软管
PTFE Hoses

TOFLE用可靠的技术维持用户能安心，安全，安定地使用产品

TOFLE support your SECURITY, SAFETY, STABILITY with our refined technology.



振动耐久试验机
Vibration Durability Test



反复变位试验机
Displacement Test



材料检查
(手提式成分分析)
Material Inspection
(Portable Component Analyzer)



公司简介

特扶利五金制品(上海)有限公司是在2002年12月12日由 TOFLE CO., INC. 全额投资, 建立在上海市松江区的日本独资企业。特扶利五金制品利用在日本的螺旋管综合厂家所积蓄的技术, 以高层建筑使用的连接软管为中心, 生产在所有领域都能应用的产品。尤其是以Ω(欧美雅)形状的环形软管和超柔软环型软管为主, 贡献于各种产业。软管产品出口欧洲、美国、东南亚和大洋洲。

今后, 以上海为据点, 为了满足日益增加的社会需要, 为顾客提供能安心使用的产品, 特扶利五金制品永无止境地一直在向各领域不断挑战。

Company Profile

We situated in Songjiang, Shanghai were invested and established solely by the Japanese Company, Tofle Co., Inc. on December 12 2002.

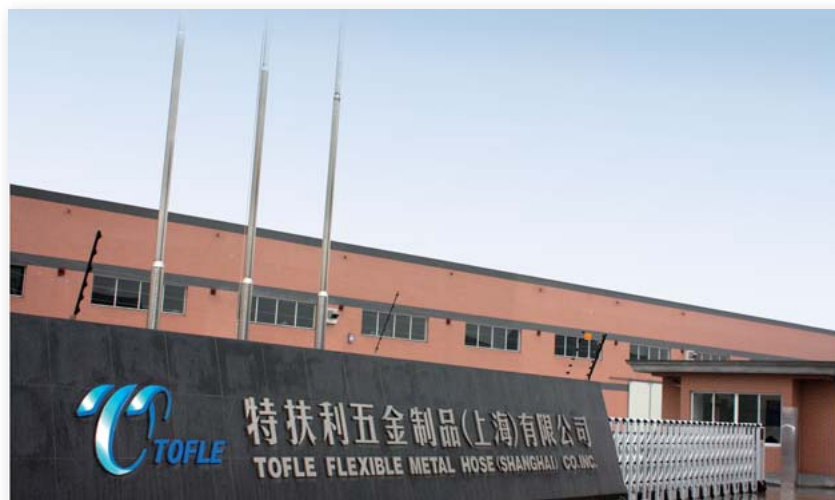
We have been producing the products, which are applied and used in every industrial field, mainly as the high quality building piping materials, having made use of much accumulated technology and technique by the above global integrated flexible tube manufacturer in Japan.

We have been exporting various kinds of Flexible Tube to Europe, U.S.A., South-East Asia, Oceania, as well as to Japan. Our main products are Omega type tube and Super Annular tube, having much contributed for great development of various industries.

We, TOFLE would continue to strive, based in Shanghai, to manufacture and supply the products, which can be applied and used with safety and reliability by all possible customers and users, satisfying social sophisticated needs.



日本特扶利株式会社
TOFLE CO., INC.



特扶利五金制品(上海)有限公司
TOFLE FLEXIBLE METAL HOSE (SHANGHAI) CO., INC.

金属软管 Metal Flexible Tubes

单环形状 Annular type

超柔软环形管 Super Annular

材质 Material : SUS304 · SUS316L

- 管壁薄，波纹多的单环状软管。
- 波谷波峰均一，管壁厚度一致。
- 耐压，持久性能非常高。
- Thin wall,numerous annular corrugations.
- Even thickness throughout the corrugations.
- Excellent durability and excellent pressure resistance.



口径 (A) Nominal dia.	内径 In. dia.	外径 Out. Dia.	最小弯曲半径 (mm) Minimum bending radius		使用压力 Working Pressure (Mpa)	破坏压力 Burst Pressure (Mpa)
			固定 Fix	反复 Repetition		
8A	8.0	13.2	20	60	6.6	40.2
10A	10.0	15.8	30	100	7.4	35.1
15A	15.0	21.5	35	125	4.3	17.2
20A	20.0	27.7	40	130	3.3	13.2
25A	25.4	33.5	70	190	4.5	19.2
32A	32.0	40.6	90	205	3.1	12.5
40A	40.0	50.9	125	235	2.9	11.9
50A	50.0	61.3	190	270	2.0	8.0

超薄柔软环形管 Super Bellow

材质 Material : SUS316L

- 管壁很薄，波纹多的单环状软管。
- 柔软，振动吸收性能优越，反复寿命非常高。
- Extra-thin wall,numerous annular corrugation.
- Flexibility,excellent absorption of vibration,excellent durability against repetition.



口径 (A) Nominal dia.	内径 In. dia.	外径 Out. Dia.	最小弯曲半径 (mm) Minimum bending radius		使用压力 Working Pressure (Mpa)	破坏压力 Burst Pressure (Mpa)
			固定 Fix	反复 Repetition		
10A	10.0	14.8	25	70	4.70	24.6
15A	15.0	20.4	30	80	2.96	11.9
20A	20.0	25.8	35	115	2.34	9.4
25A	25.4	33.0	60	125	3.05	12.2
32A	32.0	40.4	80	145	1.97	7.9
40A	40.0	49.7	90	150	2.04	8.2
50A	50.0	60.5	120	230	1.33	5.4

Ω型环形软管 Tuf Omega Tube

材质 Material : SUS304 · SUS316L · SUS321

- 持久性，耐压性高的广泛应用的软管。
- Excellent durability and excellent pressure resistance.



口径 (A) Nominal dia.	内径 In. dia.	外径 Out. Dia.	最小弯曲半径 (mm) Minimum bending radius		使用压力 Working Pressure (Mpa)	破坏压力 Burst Pressure (Mpa)
			固定 Fix	反复 Repetition		
25A	27.0	38.5	90	170	3.77	18.2
32A	32.5	48.5	110	180	2.45	17.7
40A	41.0	56.5	120	200	3.02	12.1
45A	46.0	63.5	130	215	2.38	9.6
50A	53.5	72.5	135	225	1.79	7.2
65A	67.0	87.4	150	260	2.25	9.0
80A	78.5	103.0	220	275	1.62	6.5
90A	92.5	119.0	240	300	1.19	4.8
100A	103.5	129.0	280	350	1.22	4.9
125A	128.5	156.5	425		1.17	4.7
150A	152.0	183.5	500		0.85	3.4
175A	177.5	209.5	600		1.24	5.0
200A	203.0	238.0	750		0.95	3.8
225A	227.0	264.0	850		0.92	3.7
250A	251.0	290.0	900		0.75	3.0
275A	276.0	317.0	1050		0.90	3.6
300A	300.5	342.5	1200		0.77	3.1

Ω型密波环形软管 Tuf Omega Bellows

材质 Material : SUS304 · SUS316L · SUS321

- 波距小，适合于振动大，频率多的配管用途。
- Closed pitch,strong against repetitions bending and vibration.



口径 (A) Nominal dia.	内径 In. dia.	外径 Out. Dia.	最小弯曲半径 (mm) Minimum bending radius		使用压力 Working Pressure (Mpa)	破坏压力 Burst Pressure (Mpa)
			固定 Fix	反复 Repetition		
25A	26.5	39.0	80	160	4.31	18.2
32A	32.0	49.0	100	170	1.90	17.7
40A	40.5	57.0	110	180	3.02	12.1
45A	45.0	64.0	115	190	2.40	9.6
50A	53.0	73.0	120	200	1.79	7.2
65A	66.5	87.9	140	225	2.11	9.0
80A	78.0	103.5	200	250	1.37	6.5
90A	92.0	119.5	220	275	1.09	4.8
100A	103.0	129.5	240	300	1.22	4.9
125A	128.0	157.0	350		1.17	4.7
150A	151.5	184.0	400		0.85	3.4
175A	177.0	210.0	500		1.15	5.0
200A	202.5	238.5	600		0.95	3.8
225A	226.5	264.5	650		0.92	3.7
250A	250.5	290.5	700		0.75	3.0
275A	275.5	317.5	800		0.90	3.6
300A	300.0	343.0	900		0.77	3.1

2层Ω型环形软管 Omega 2ply Bellows

材质 Material

内层 Inner : SUS316L

外层 Outer : SUS304

- 柔软性非常高，耐压性高，2层构造的安全设计。
- Safety is higher according to 2ply constructions.



口径 (A) Nominal dia.	内径 In. dia.	外径 Out. Dia.	最小弯曲半径 (mm) Minimum bending radius		使用压力 Working Pressure (Mpa)	破坏压力 Burst Pressure (Mpa)
			固定 Fix	反复 Repetition		
40A	40.5	56.5	200	270	2.77	11.1
50A	53.5	73.0	250	280	3.87	15.5
65A	67.0	88.5	300	320	2.55	10.2
80A	78.5	103.0	400		1.85	7.4
100A	103.5	130.5	700		2.52	10.1
125A	128.5	157.5	750		1.67	6.7
150A	152.0	184.5	800		1.19	4.8
200A	203.0	238.0	900		1.10	4.4
250A	251.0	291.0	1100		1.25	5.0
300A	300.5	343.5	1300		1.20	4.8
350A	346.0	391.0	1500		0.65	2.6
400A	396.0	442.0	1800		0.50	2.0



2层Ω型环形软管
Omega 2ply Bellows

螺旋形状 Spiral Type

优秀螺旋软管 Excellent Tube

材质 Material : SUS304 · SUS316L

- 耐压性，持久性高的广泛应用的软管。
- Excellent durability and excellent pressure resistance.



口径 (A) Nominal dia.	内径 In. dia.	外径 Out. Dia.	最小弯曲半径 (mm) Minimum bending radius		使用压力 Working Pressure (Mpa)	破坏压力 Burst Pressure (Mpa)
			固定 Fix	反复 Repetition		
8A	6.8	12.3	25	80	11.7	58.4
10A	10.0	16.5	30	100	9.7	38.8
15A	13.0	20.2	50	140	6.1	24.3
20A	18.7	26.8	70	150	4.2	16.9
25A	24.8	34.6	80	160	5.6	22.2
32A	32.0	43.2	100	170	3.4	13.7
40A	37.3	49.7	150	240	3.8	15.2
50A	50.0	64.0	200	270	2.2	8.8

3层超耐压柔软螺旋管 UFO Flex BOA-DUO

材质 Material : SUS321

- 把二层不锈钢板做螺旋波状，外面第3层不锈钢用电焊接。
- 耐超高压，吸收激烈的振动。
- Corrugate the thin plate of stainless in spiral, and weld the 3ply in top the of corrugation continuously by Electric Welding.
- Resistance for high pressure and absorption for vibration.



口径 (A) Nominal dia.	内径 In. dia.	外径 Out. Dia.	最小弯曲半径 (mm) Minimum bending radius		使用压力 Working Pressure (Mpa)	破坏压力 Burst Pressure (Mpa)
			固定 Fix	反复 Repetition		
8A	8.1	13.8	20	210	10.7	43.0
10A	10.2	16.1	25	220	9.7	40.1
15A	12.2	18.8	30	225	7.0	27.9
20A	20.2	28.3	40	270	3.7	14.8
25A	25.2	33.8	50	315	5.6	22.5
32A	32.3	43.3	60	405	3.4	13.4
40A	40.3	51.4	70	480	3.4	13.8
50A	50.3	63.3	90	570	2.2	8.8

柔软螺旋软管 Soft Tube

材质 Material : SUS316L

- 反力低的广泛应用的软管。
- Small spring rate multipurpose tube.



口径 (A) Nominal dia.	内径 In. dia.	外径 Out. Dia.	最小弯曲半径 (mm) Minimum bending radius		使用压力 Working Pressure (Mpa)	破坏压力 Burst Pressure (Mpa)
			固定 Fix	反复 Repetition		
10A	10.5	15.5	25	80	6.5	26.0
15A	13.5	19.0	30	90	4.1	16.5
20A	19.1	26.2	35	120	2.8	11.2
25A	25.3	33.5	45	130	3.5	14.2
32A	32.6	42.5	50	160	2.2	8.8
40A	38.5	49.0	85	170	2.5	10.1
50A	51.5	63.0	120	220	1.5	6.0

2层超柔软螺旋管 Ultra Soft Flex

材质 Material : SUS321

- 柔软性及振动吸收性能卓越。
- 把不锈钢板做螺旋波状，外面第2层不锈钢用电焊接。
- Excellent flexibility and excellent absorption of vibration.
- Corrugate the thin plate of stainless in spiral, and weld the top of corrugation continuously by Electric Welding.



口径 (A) Nominal dia.	内径 In. dia.	外径 Out. Dia.	最小弯曲半径 (mm) Minimum bending radius		使用压力 Working Pressure (Mpa)	破坏压力 Burst Pressure (Mpa)
			固定 Fix	反复 Repetition		
8A	8.2	13.8	20	45	4.2	44.0
10A	10.2	15.8	25	55	4.4	37.1
15A	12.2	18.6	30	60	4.0	28.8
20A	20.2	27.9	40	95	3.8	15.2
25A	25.2	33.4	50	110	3.2	20.7
32A	32.3	42.5	60	115	2.0	14.0
40A	40.3	50.5	70	135	2.1	14.1
50A	50.3	62.7	90	160	1.8	9.0

※ 上述数值是使用 1 层金属网套的数值。
※ The above value showed calculated figures with single braid at ambient.



超柔软环形管
Supper Annular



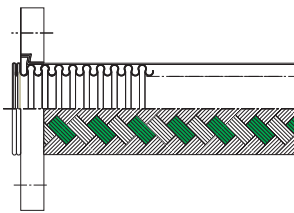
Ω型环形软管
Tuf Omega Tube



3层超耐压柔软螺旋管
UFO Flex BOA-DUO

接头型号 End Fitting List

TF-20000



型式略称 : NW
Code Address

- 构造: 软管非焊接接合的法兰型
- 特长: 优秀的吸收振动能力
- 通径: 20A~300A
- 接头材质: 法兰 碳钢·不锈钢

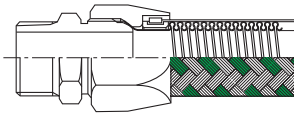
Construction: Non welded flange type
Features: Excellent absorption of vibration
Nominal dia.: 20A~300A
Fitting materials: Flange Carbon Steel, Stainless steel

法兰型 非焊接接合
Non Welded Flange Type

使用软管
Tubes

Ω型环形软管
Tuf Omega Tube

TF-1600



型式略称 : MT
Code Address

- 构造: 非焊接型软管接合
- 特长: 小型的锥管螺纹
- 通径: 8A~25A
- 接头材质: 法兰 碳钢·不锈钢

Construction: Flange nut is connected with tube without welding.
Features: Compact design, screw type
Nominal dia.: 8A~25A
Fitting materials: Flange Carbon Steel, Stainless steel

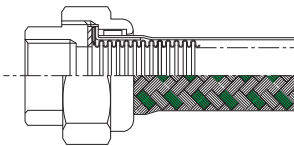
锥管螺纹型 非焊接型接合
Non Welded Screw Type

使用软管
Tubes

优秀螺旋软管
Excellent Tube

柔软螺旋软管
Soft Tube

TF-1800



型式略称 : Super UNW
Code Address

- 构造: 软管不焊接的由任型号
- 特长: 不焊接, 优秀的振动吸收能力
- 通径: 15A~50A
- 接头材质: FCMB (由任接头)

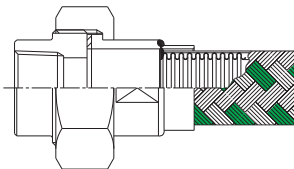
Construction: Non welded, union type.
Features: Non welded, excellent absorption of vibration
Nominal dia.: 15A~50A
Fitting materials: FCMB (Union)

锥管螺纹型 非焊接型接合
Non Welded Screw Type

使用软管
Tubes

超柔软环形管
Super Annular

TF-1100



型式略称 : SSE·SUSE·EF (R式)
Code Address

- 构造: 由任接头与管焊接。
- 特长: SUSE的接液部耐腐蚀性优越。
- 通径: 10A~50A
- 接头材质: SSE : 碳钢
SUSE : 不锈钢
EF (R式) : FCMB

※其他的由任接头也能焊接, 请联系。
Construction: Union fitting is welded to tube
Features: As wetted part is stainless steel, it is good corrosion resistance.
Nominal dia.: 10A~50A
Fitting materials: SSE Carbon steel
SUSE Stainless steel
EF (R-type) FCMB
* Other union welding type are available. Please contact us.

锥管螺纹型 焊接型接合
Screw Welded Type

使用软管
Tubes

Ω型环形软管
Tuf Omega Tube

超柔软环形管
Super Annular

超薄柔软环形管
Super Bellow

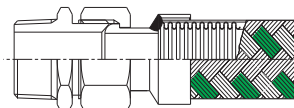
优秀螺旋软管
Excellent Tube

柔软螺旋软管
Soft Tube

3层超耐压柔软螺旋管
UFO Flex BOA-DUO

2层超柔软螺旋管
Ultra Soft Flex

TF-7000



型式略称 : SSNM·SSNF·SUSSNM·SUSSNF
Code Address

- 构造: 螺帽接头与软管焊接。
- 特长: 用扳手把螺母夹紧, 能够容易与配管安装和拆卸。
- 通径: 8A~50A
- 接头材质: SSNM·SSNF : 碳钢
SUSSNM·SUSSNF : 不锈钢
- 锥管螺纹: M : 螺纹管接头 R
F : 螺纹管插座 Rc

Construction: Female unit fitting tube is butt welded to tube.
Features: Female nut can be easily fastened with wrench.
Nominal dia.: 8A~50A
Fitting materials: SSNM·SSNF : Carbon steel
SUSSNM·SUSSNF: Stainless Steel
Fitting screw: M : Male Nipple R
F : Female Socket Rc

锥管螺纹型 焊接型接合
Screw Welded Type

使用软管
Tubes

Ω型环形软管
Tuf Omega Tube

超柔软环形管
Super Annular

超薄柔软环形管
Super Bellow

优秀螺旋软管
Excellent Tube

柔软螺旋软管
Soft Tube

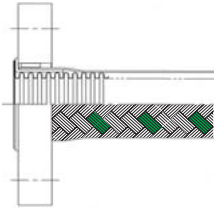
3层超耐压柔软螺旋管
UFO Flex BOA-DUO

2层超柔软螺旋管
Ultra Soft Flex

TF-48000

型式略称 : Super NW
Code Address

法兰型 非焊接接合
Non Welded Flange Type



- 构造: 软管非焊接
- 特长: 面压大, 密封更能确实
- 通径: 20A~50A
- 接头材质: 法兰 碳钢・碳钢・不锈钢

Construction: Non welded type
Features: Large seal surface assures a firm seal
Nominal dia.: 20A~50A
Fitting materials: Flange Mild Steel, Carbon steel, Stainless steel

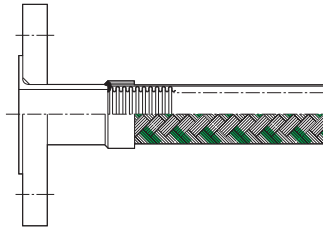
使用软管
Tubes

超柔软环形管
Super Annular

TFR-2000・3000・4000

型式略称 : SB・SUSB・SUSBSUS
Code Address

法兰型 焊接接合
Welded Flange Type



- 构造: 互搭接头与软管对接焊接。
- 特长: 两端法兰不固定, 容易配管。
- 通径: 10A~50A
- 接头材质:
SB: 互搭接头是碳钢
SUSB: 互搭接头是不锈钢 (接流体部SUS)
SUSBSUS: 互搭接头和法兰
都是不锈钢 (all SUS)
- 连接接头: TFR-2000 (JIS5K法兰)
TFR-3000 (JIS10K法兰)
TFR-4000 (JIS20K法兰)

※65A以上的尺寸也能制作, 请查询。
也采用不锈钢钢带拉紧式来焊接。

Construction: The tube is butt-welded to the lap joint.
Features: As the both ends flanges are loose, pipe laying work is easily done.
Nominal dia.: 10A~50A

Fitting materials: SB Lap joint Carbon steel
SUSB Lap joint Stainless steel (Wetted part SUS)
SUSBSUS Lap joint and flange Stainless steel (all SUS)

Fittings: TFR-2000 JIS5K Flange
Fittings: TFR-3000 JIS10K Flange
Fittings: TFR-4000 JIS20K Flange

※About over 65A and bigger sizes, please contact us. Band welded type is also available.

使用软管
Tubes

Ω型环形软管
Tuf Omega Tube

超柔软环形管
Super Annular

超薄柔软环形管
Super Bellow

优秀螺旋软管
Excellent Tube

柔软螺旋软管
Soft Tube

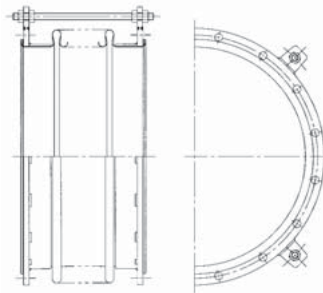
3层超耐压柔软螺旋管
UFO Flex BOA-DUO

2层超柔软螺旋管
Ultra Soft Flex

TX-10005

型式略称 : ENW
Code Address

非焊接排气伸缩接头
Expansion Joint for Engine Exhaust



- 构造: 非焊接式排气管
- 特长: 弹性反力小, 长寿命型
- 通径: 50A~1200A
- 接头材质: 法兰 碳钢・碳钢・不锈钢

Structure: Non welded type for piping exhaust
Features: Small spring rate, long durability
Nominal dia.: 50A~1200A
Fitting materials: Flange Carbon steel, Stainless steel

使用软管
Tubes

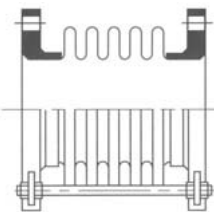
Ω型波纹管
Omega Bellows

大口径伸缩接头
Bellows Expansion

TX-20010

型式略称 : VJ
Code Address

焊接自由型伸缩接头
Expansion Joint in Free Type



- 构造: 最标准广用型
- 特长: 弹性反力小, 长寿命型
- 通径: 50A~600A
- 接头材质: 法兰 碳钢・碳钢・不锈钢

Structure: Multipurpose tube
Features: Small spring rate, long durability
Nominal dia.: 50A~600A
Fitting materials: Flange Carbon steel, Stainless steel

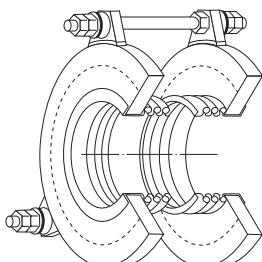
使用软管
Tubes

Ω型波纹管
Omega Bellows

TX-83000

型式略称 : VJ
Code Address

非焊接防振接头
Non Welded Versa Joints



- 构造: 内层SUS316L 外层SUS304的2层
- 特长: 非焊接2层式的防振接头
- 通径: 50A~400A
- 接头材质: 法兰 碳钢・碳钢・不锈钢

Structure: 2 ply type (Inner SUS316L, Outer SUS304)
Features: Non welded 2 ply vibration absorber.
Nominal dia.: 50A~400A
Fitting materials: Flange Carbon steel, Stainless steel

使用软管
Tubes

2层Ω型波纹管 (10K)
Omega 2 ply Bellows

Bioflex® The World's Leading PTFE Flexible Hose.

Bioflex 是领先世界的 PTFE软管

Bioflex is a smoothbore, highly flexible, PTFE lined hose. Its design overcomes the disadvantages of conventional smoothbore and convoluted flexible hose designs, dramatically improving on many of their individual technical performance parameters.

Bioflex 是一种具有平滑内表面,非常柔软的PTFE软管。
其设计克服了传统的平滑的内表面与螺旋型软管设计的各自不足之处,在许多个别的技术性能参数上都有了飞跃的提高。

Comparison with convoluted PTFE Hose

与波纹状PTFE软管的比较

Hygienic Cleanability 清洁卫生

Vastly improved, due to smooth bore and hygienically polished surface finish.
有平滑的内表面并进行了为满足卫生要求的表面抛光处理,卫生和易清洁程度得到很好改善。

Fully Self Draining 液体完善排出

Unlike conventional convoluted hose, which pools fluid in the convolutions when at an angle.

与传统的螺旋型软管在凹凸处积聚液体情况不同,液体能全部顺畅流出。

Flow Rates 流量

More than 100 % higher.
提高了100%以上。

Pressure Ratings 耐压性

More than 50 % higher.
提高了50%以上。

Gas Permeation Resistance 耐气体的渗透性

More than 150 % higher.
提高了150%以上。

Flex Life at Temperature and Pressure

在温度和压力下的寿命

More than 50 times the life, dependent upon test conditions.
根据试验条件,高于50倍以上。

Comparison with Silicone Rubber Hose

与硅胶软管的比较

Hygienic Cleanability 清洁卫生

Much better, due to highly polished inner surface finish.
由于通过高度抛光内表面处理,卫生和易清洁程度得到很好改善。

Chemical Resistance 耐化学物质性

Considerably improved, particularly to strong oxidizing acids and bases.
耐化学物质性能,特别在强氧化酸和碱的物质上,有明显的提高。

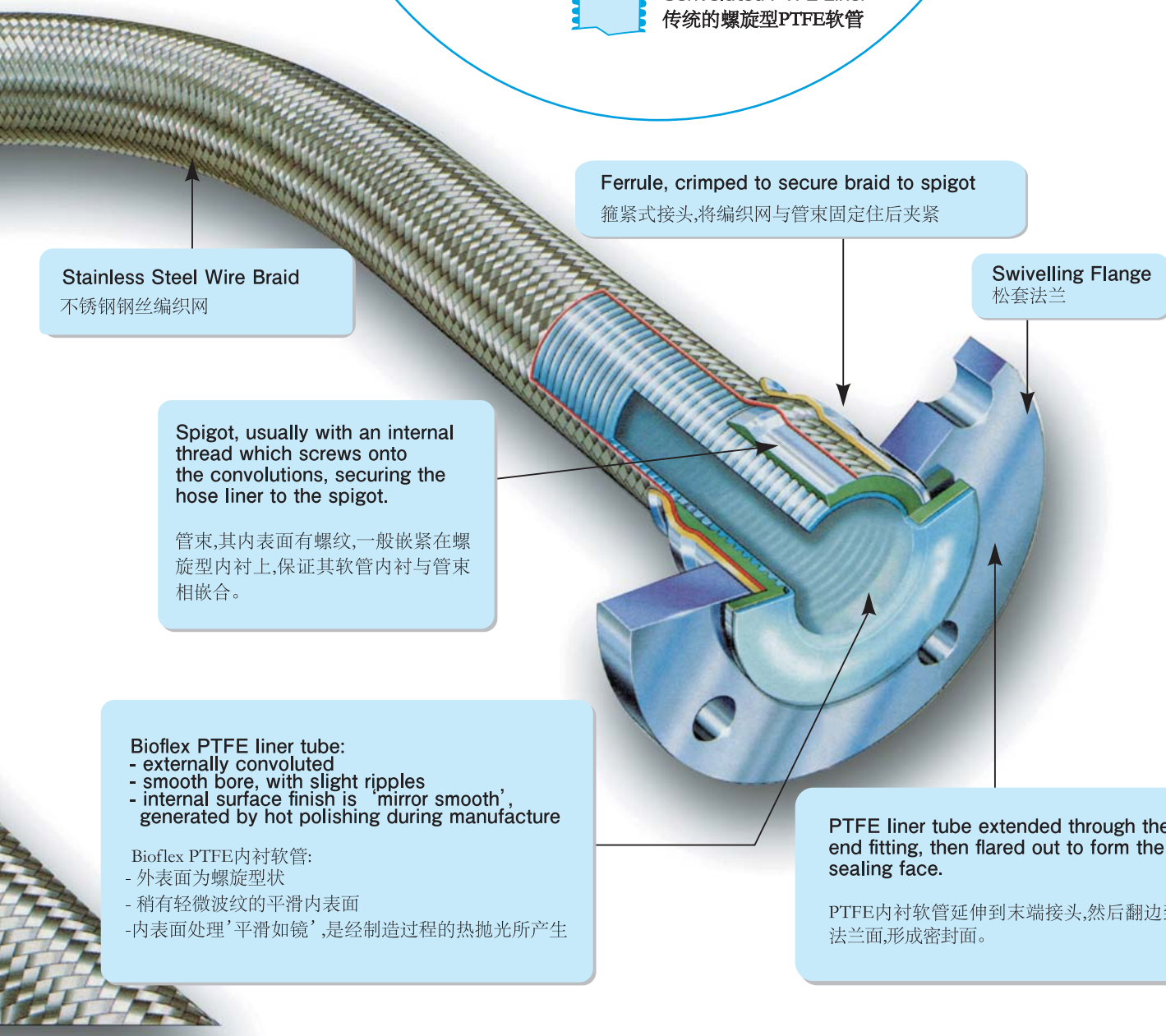
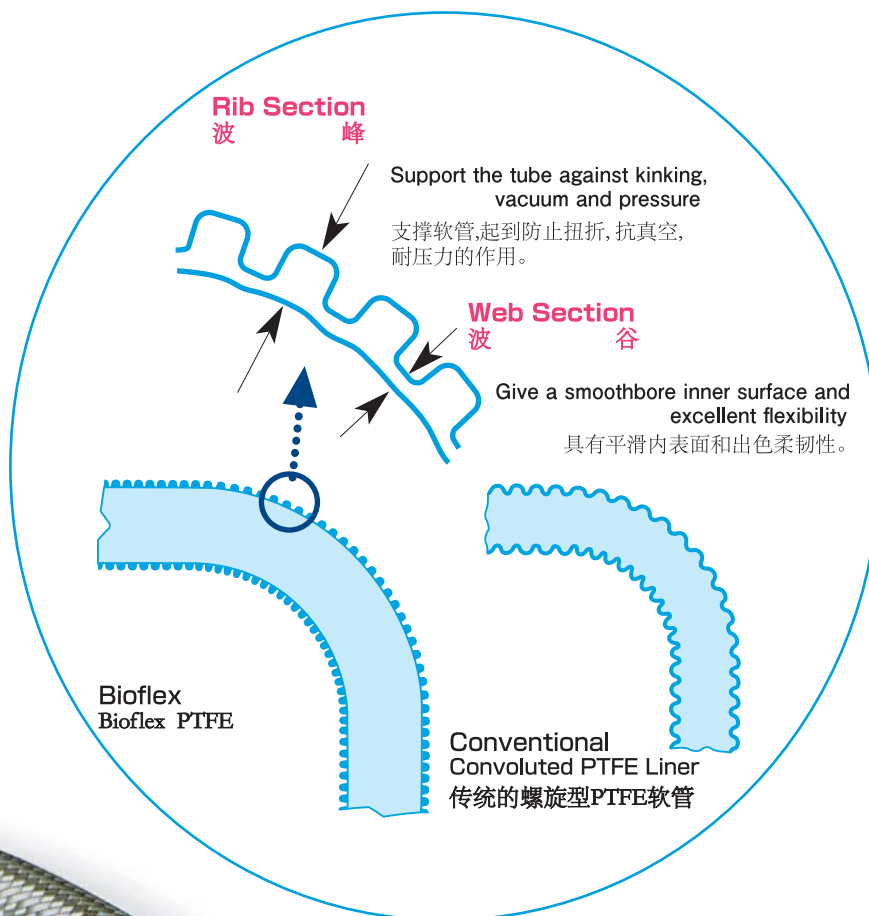
Temperature & Pressure Ratings 耐温度和压力

Much higher temperature and pressure capability.
能承受较高的温度和压力。

Steam Resistance 耐蒸气

Permanently resistant to steam sterilizing (unlike silicone hose, which has a limited life).
永久承受蒸气杀菌。(与寿命有限的硅胶软管不一样)





PTFE 软管 Bioflex®

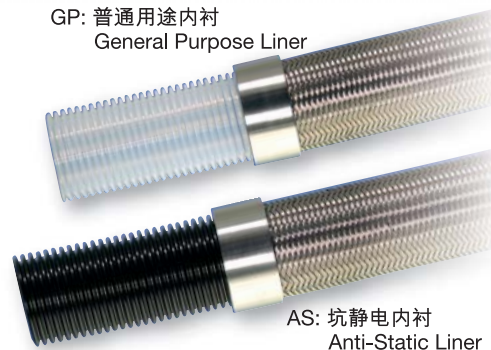
Bioflex GP 是一种‘普通用途’的软管，用于输送非高电阻的液体或气体。

Bioflex GP is the ‘General Purpose’ grade, for use in all applications where fluids or fumes being conveyed are not highly electrically resistant.

Bioflex AS 软管用于输送有电阻的液体，如燃料、溶媒、或者氟利昂、或者如卤气、蒸气等纯净气体·干燥气体。使用Bioflex AS软管，可以起到防止由软管内部静电积聚所引起损害的作用。

Bioflex AS is suitable for use in applications where electrically resistive fluids, such as fuels, solvents or freon or pure, dry gases such as halogens or steam are being conveyed. The use of Bioflex AS prevents a damaging electrostatic charge build-up inside the hose.

GP: 普通用途内衬
General Purpose Liner



AS: 抗静电内衬
Anti-Static Liner

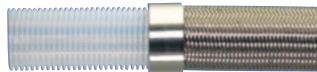
尺寸范围和参数 Size Range and Specifications

软管口径 Nominal Hose Bore Size in	实质内径 Actual Bore Size mm	软管外径 O/D of Tube mm	网套种类 Braid Type	网套或橡胶管的外径 O/D of Braid or Rubber mm	最小弯曲半径 Minimum Bend Radius mm	最大使用压力 MWP of Hose MPa	最小破坏压力 Minimum Burst Pressure MPa	最大连续长度 Maximum Continuous Hose Length m	重量 Weight per Unit Length kg./m
3/8	9.5	11.75	TO	-	35	0.5	2	20	0.06
			SS	13	20	8.0	32	20	0.14
1/2	12.7	15.40	TO	-	60	0.5	2	20	0.15
			SS	16.5	38	7.0	28	20	0.29
			PB	18.0	38	3.5	14	20	0.22
			SS,RC/FP	21.0	60	7.0	28	20	0.39
			SI	21.0	60	7.0	28	10	0.39
			KYB	17.5	60	1.0	4	20	0.19
3/4	19.0	23.00	TO	-	75	0.5	2	20	0.20
			SS	24.4	50	6.0	24	20	0.40
			PB	25.8	50	3.0	12	20	0.28
			SS,RC/FP	29.0	75	6.0	24	20	0.55
			SI	29.0	75	6.0	24	10	0.55
			KYB	26.0	75	1.0	4	20	0.24
7/8	22.0	26.80	TO	-	92.5	0.4	1.6	20	0.28
			SS	28.4	60	5.5	22	20	0.58
			PB	30.2	60	2.75	11	20	0.38
			SS,RC/FP	33.0	92.5	5.5	22	20	0.74
			SI	33.0	92.5	5.5	22	10	0.74
			KYB	29.7	92.5	1.0	4	20	0.33
1	25.4	31.00	TO	-	110	0.4	1.6	20	0.36
			SS	32.3	70	5.0	20	20	0.63
			PB	34.7	70	2.5	10	20	0.47
			SS,RC/FP	36.9	110	5.0	20	20	0.92
			SI	36.9	110	5.0	20	5	0.92
			KYB	33.4	110	1.0	3	20	0.41
1 1/4	32.0	37.30	TO	-	140	0.3	1.2	20	0.45
			SS	38.4	100	4.5	18	20	0.85
			PB	40.1	100	2.3	9	20	0.72
			SS,RC/FP	43.2	140	4.5	18	20	1.15
			SI	43.2	140	4.5	18	5	1.15
			KYB	39.7	140	0.6	2.4	20	0.53
1 3/8	34.9	40.50	TO	-	160	0.2	0.8	18	0.54
			SS	41.8	120	4.0	16	18	1.00
			PB	44.2	120	2.0	8	18	0.86
			SS,RC/FP	46.4	160	4.0	16	18	1.38
			SI	46.4	160	4.0	16	5	1.38
			KYB	42.9	160	0.6	2	18	0.68
1 1/2	38.0	45.00	TO	-	180	0.2	0.8	17	0.66
			SS	46.8	140	4.0	16	17	1.10
			PB	48.8	140	2.0	8	17	0.90
			SS,RC/FP	54.6	180	4.0	16	17	1.55
			SI	54.6	180	4.0	16	5	1.55
			KYB	47.7	180	0.6	2	17	0.78
1 7/8	47.6	54.60	TO	-	280	0.2	0.8	13	0.82
			SS	56.4	190	3.5	14	13	1.38
			PB	58.4	190	1.8	7.2	13	1.12
			SS,RC/FP	64.2	280	3.5	14	13	1.94
			SI	64.2	280	3.5	14	5	1.94
			KYB	57.3	280	0.6	1.6	13	0.97
2	50.8	59.10	TO	-	300	0.2	0.8	10	1.25
			SS	60.9	200	3.0	12	10	1.90
			PB	62.9	200	1.5	6	10	1.60
			SS,RC/FP	68.9	300	3.0	12	10	2.56
			SI	68.9	300	3.0	12	5	2.56
			KYB	61.7	300	0.6	1.2	10	1.42

TO: 软管 (无编织网)
Tube Only (no braid)



SS: 不锈钢丝编织网
Stainless Steel



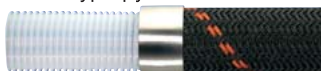
(-70°C~+260°C)

RC: 橡胶外套
Rubber Covered



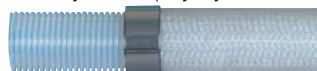
(-40°C~+140°C)

PB: 聚丙烯编织网
Polypropylene Braid



(-30°C~+100°C)

KYB: Kynar 编织网
Kynar Braid (Polyvinylidene Fluoride Monofilament)



(-40°C~+120°C)

SI: 硅胶外套
Silicone Rubber Cover



(-40°C~+180°C)

上述温度是内部液体的最大作用温度。

Mentioned above is Max. Operating Temperatures (internal fluid only).

PTFE 软管 Hyperline

Hyperline SB

Hyperline SB 是一种内表面平滑, 壁厚薄适中, 经挤压为无缝PTFE软管, 且软管外覆304级别不锈钢钢丝编织网。

Hyperline SB is a smoothbore, medium wall premium grade, seamless extruded PTFE Tube with a Grade304 Stainless Steel Wire Braid.



尺寸范围和参数 Size Range and Specifications Hyperline SB, SS Only

软管口径 Hose Size	实质内径 Actual Bore Size	网套外径 O/D of Braid	最小弯曲半径 Minimum Bend Radius	最大使用压力 Maximum Working Pressure	破坏压力 Burst Pressure	重量 Weight/metre
in	mm	mm	mm	MPa	MPa	kg/m
1/4	6.7	9.3	60	19.3	77.3	0.110
3/8	10.0	12.7	80	17.2	69.1	0.166
1/2	13.6	16.3	130	12.3	49.4	0.210
3/4	19.8	19.5	180	8.5	34.1	0.327
1	26.4	30.2	230	7.6	30.5	0.524

Hyperline V

Hyperline V 是为满足大多数普通产业而设计的螺旋波型PTFE内衬软管。

Hyperline V is Convuluted PTFE Hose designed for use in a wide variety of general purpose industrial applications.



尺寸范围和参数 Size Range and Specifications Hyperline V, SS or V, AS, SS Only

软管口径 Hose Size	实质内径 Actual Bore Size	网套外径 O/D of Braid	最小弯曲半径 Minimum Bend Radius	最大使用压力 Maximum Working Pressure	破坏压力 Burst Pressure	重量 Weight/metre
in	mm	mm	mm	MPa	MPa	kg/m
3/8	6.30	13	20	7.60	22.9	0.13
1/2	9.50	17	25	5.60	17.0	0.20
3/4	16.0	24	50	4.60	13.8	0.34
1	22.2	29	63	3.25	9.8	0.47
1 1/4	28.2	36	70	2.75	8.3	0.63
1 1/2	35.0	47	115	2.20	6.6	0.90
2	47.0	61	130	1.83	5.5	1.25

Hyperline FX

Hyperline FX 与其他PTFE软管产品不一样。PTFE内衬软管是内表面平滑, 外表面为螺旋波型的PTFE内衬软管, 组装方便。该产品的特点是内表面平滑, 流量大, 有良好的柔软性, 且具有螺旋波型软管特有的不折断性能。

Hyperline FX is unlike any other PTFE hose product currently available. The PTFE liner tube is smooth bore on the inside but convoluted on the outside, to combine the ease of assembly and high flow rates of a smooth bore hose with the flexibility and kink resistance of a convoluted hose in one product.



尺寸范围和参数 Size Range and Specifications Hyperline FX, SS Only

软管口径 Hose Size	实质内径 Actual Bore Size	软管外径 O/D of Tube	最小弯曲半径 Minimum Bend Radius	最大使用压力 Maximum Working Pressure	破坏压力 Burst Pressure	软管外径 O/D of Braid
in	mm	mm	mm	MPa	MPa	mm
1/4	6.80	8.6	19	8.8	35	9.6
3/8	10.0	12.5	25	8.0	32	13.5
1/2	13.6	16.4	32	6.0	24	17.5
3/4	19.8	23.8	60	4.2	17	25.1
1	26.4	30.0	73	4.0	16	31.3

PTFE 软管 Corroflon

Corroflon AS 是一种符合电阻介质用途的软管，主要用于输送如燃料、溶媒、纯净干燥气体或氟利昂等电阻介质的。该软管起到防止由软管内部静电积聚所带来损害的作用。

Corroflon AS is suitable for use in applications where electrically resistive media, such as fuels, solvents, pure dry gases or freons are being conveyed, in order to prevent a damaging electrostatic charge build-up inside the hose.

Corroflon SP 用于承受高温和高压，有更大的柔软性，不易折断和压裂，同时也用于耐完全真空2寸以上口径的软管。

Corroflon SP is for applications requiring a higher temperature/pressure rating, greater flexibility and improved kink and crush resistance. Also for applications requiring full vacuum resistance for hose sizes larger than 2".

SP: 特殊用途内衬
Special Purpose Liner



AS: 抗静电内衬
Anti-Static Liner

尺寸范围和参数 Size Range and Specifications

软管口径 Nominal Hose Bore Size in	实质内径 Actual Bore Size mm	软管外径 O/D of Tube mm	网套种类 Braid Type	网套或橡胶管的外径 O/D of Braid or Rubber mm	最小弯曲半径 Minimum Bend Radius mm	最大使用压力 MWP of Hose MPa	最小破坏压力 Minimum Burst Pressure MPa	最大连续长度 Maximum Continuous Hose Length m	重量 Weight per Unit Length kg/m
1/2	11.2	16.00	TO	-	38	0.6	1.8	25	0.21
			SS	17.5	38	4.1	12.3	25	0.33
			PB	19.1	38	4.1	12.3	25	0.26
			SS,RC/FP	23.5	57	4.1	12.3	20	0.49
			RC,SI	23.5	57	4.1	12.3	10	0.49
			KYB	19.1	38	2.05	6.15	25	0.23
3/4	15.7	21.40	TO	-	51	0.525	1.575	25	0.29
			SS	23.1	51	3.5	10.5	25	0.45
			PB	26.0	51	3.5	10.5	25	0.36
			SS,RC/FP	29.6	76	3.5	10.5	20	0.56
			RC,SI	29.6	76	3.5	10.5	10	0.56
			KYB	26.0	51	1.75	5.25	25	0.31
1	21.5	29.40	TO	-	70	0.465	1.395	40	0.45
			SS	31.7	70	3.1	9.3	40	0.70
			PB	34.0	70	3.1	9.3	40	0.56
			SS,RC/FP	36.6	105	3.1	9.3	20	0.98
			RC,SI	36.6	105	3.1	9.3	10	0.98
			KYB	34.0	70	1.55	4.65	40	0.49
1 1/4	27.5	37.00	TO	-	82	0.405	1.215	22	0.53
			SS	38.4	82	2.7	8.1	22	0.82
			PB	43.6	82	2.7	8.1	22	0.66
			SS,RC/FP	42.8	123	2.7	8.1	20	1.12
			RC,SI	42.8	123	2.7	8.1	10	1.12
			KYB	43.6	82	1.35	4.05	22	0.57
1 1/2	32.0	42.70	TO	-	100	0.345	1.035	20	0.97
			SS	44.6	100	2.3	6.9	20	1.50
			PB	48.6	100	2.3	6.9	20	1.20
			SS,RC/FP	55.8	150	2.3	6.9	20	1.90
			RC,SI	55.8	150	2.3	6.9	10	1.90
			KYB	48.6	100	1.15	3.45	20	1.05
2	43.0	56.50	TO	-	140	0.3	0.9	18	1.36
			SS	59.0	140	2.0	6.0	18	2.10
			PB	62.0	140	2.0	6.0	18	1.68
			SS,RC/FP	68.0	210	2.0	6.0	18	2.72
			RC,SI	68.0	210	2.0	6.0	10	2.72
			KYB	62.0	140	1.0	3.0	18	1.47
2 1/2	54.0	71.00	TO	-	178	0.24	0.72	13	1.68
			SS	73.0	178	1.6	4.8	13	2.58
			PB	77.0	178	1.6	4.8	13	2.06
			SS,RC/FP	79.0	267	1.6	4.8	13	3.10
			RC,SI	79.0	267	1.6	4.8	10	3.10
			KYB	77.0	178	0.8	2.4	13	1.81
3	64.0	83.60	TO	-	230	0.21	0.63	10	2.14
			SS	86.0	230	1.4	4.2	10	3.29
			PB	90.0	230	1.4	4.2	10	2.63
			SS,RC/FP	95.0	345	1.4	4.2	10	3.95
			RC,SI	95.0	345	1.4	4.2	10	3.95
			KYB	90.0	230	0.7	2.1	10	2.30
4	98.0	123.30	TO	-	300	0.15	0.45	10	3.46
			SS	125.0	300	1.0	3.0	10	5.33
			PB	128.0	300	1.0	3.0	10	4.26
			SS,RC/FP	131.0	450	1.0	3.0	10	6.40
			RC,SI	131.0	450	1.0	3.0	3	6.40
			KYB	-	-	-	-	-	-
6	130.0	161.20	TO	-	600	0.075	0.225	5	6.50
			SS	170.0	600	0.5	1.5	5	10.00
			PB	173.0	600	0.5	1.5	5	8.00
			SS,RC/FP	176.0	900	0.5	1.5	5	12.00
			RC,SI	176.0	900	0.5	1.5	3	12.00
			KYB	-	-	-	-	-	-

TO: 软管 (无编织网)
Tube Only (no braid)



SS: 不锈钢丝编织网
Stainless Steel



(-70°C~+260°C)

RC: 橡胶外套
Rubber Covered



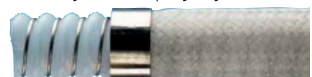
(-40°C~+140°C)

PB: 聚丙烯编织网
Polypropylene Braid



(-30°C~+100°C)

KYB: Kynar 编织网
Kynar Braid(Polyvinylidene Fluoride Monofilament)



(-40°C~+120°C)

SI: 硅胶外套
Silicone Rubber Cover



(-40°C~+180°C)

上述温度是内部液体的最大作用温度。
Mentioned above is Max. Operating Temperatures (internal fluid only).

PTFE 软管 Corroline

Corroline 具有光滑的内面和螺旋状的外面，保持了强度和柔软性。由于强化不锈钢螺旋钢丝和不锈钢编织网，防止扭曲及折断，提高了耐压性及抗真空的能力。软管的外部保护是EPDM橡胶外套加上编织网，为了保持外表面清洁，外表面光滑加工。

Corroline is smooth bore inside but convoluted outside to generate excellent flexibility. A stainless helical wire and stainless steel wire braid reinforcement add to the kink resistance, crush resistance and the resistance of the hose to both pressure and vacuum. Outer cover of abrasion resistant, black antistatic EPDM rubber is extruded on to the braid, with a super-smooth surface finish to aid external cleaning.



尺寸范围和参数 Size Range and Specifications

软管口径 Hose Size	实质内径 Actual Bore Size	软管外径 O/D of Tube	最小弯曲半径 Minimum Bend Radius	最大使用压力 Maximum Working Pressure	破坏压力 Burst Pressure	重量 Weight Per Unit Length	最大连续长度 Max. Continuous length
in	mm	mm	mm	MPa	MPa	kg / m	m
1/2	13.5	21.4	60	4.5	20.6	0.377	18
3/4	19.8	28.1	65	4.3	17.3	0.583	18
1	26.1	36.7	100	4.1	17.0	0.909	18
1-1/2	38.8	51.7	170	3.8	15.8	1.698	17
2	51.5	65.7	210	2.8	12.3	2.355	13

PTFE 软管 Pharmaline and Pharmalex

Pharmaline 是一种很清洁的柔软性也高的软管制品，适合于制药及生物技术。口径3/4以上Pharmaline 的波谷部卷有不锈钢螺旋钢丝，用于强化软管。不锈钢网套上有白色的白金加硫硅胶橡胶外部保护，外表面平滑，容易洗涤。Pharmalex 是比Pharmaline 重量更轻，是用于低压。

Pharmaline hose is an improved high purity and flexibility hose product which is suitable for Pharma and Biotech applications.

For sizes 3/4" and above, a SS helical wire is wound in to the convolutions to further reinforce the hose design. An outer cover of Platinum Cured Silicone rubber is extruded on to a SS wire braid, with a super-smooth surface finish to aid external cleaning.

Pharmalex hose was designed to provide a lightweight alternative version of Pharmaline hose, for light duty, low pressure applications.



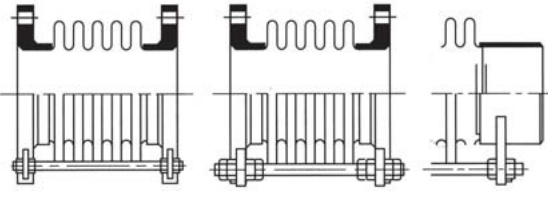
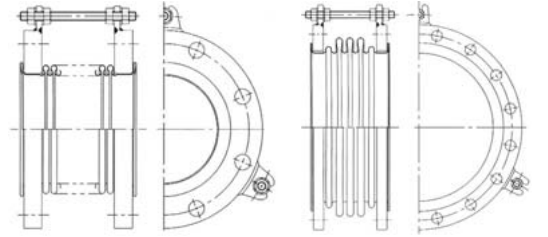
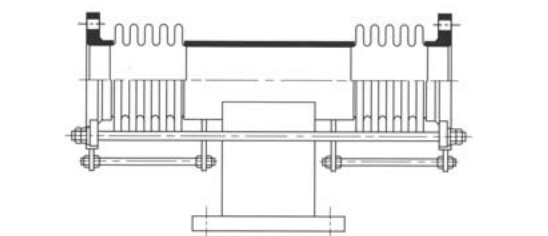
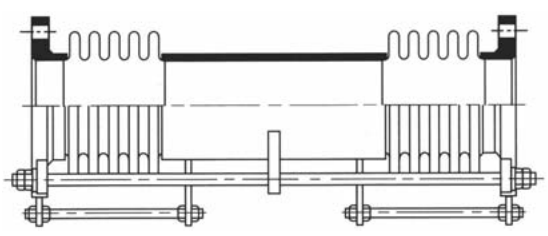
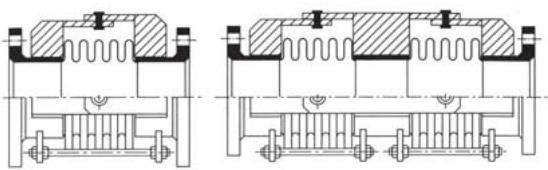
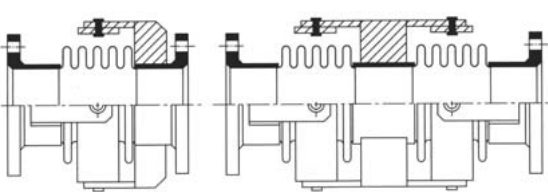
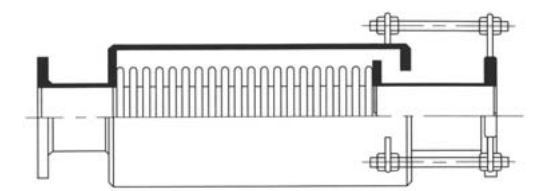
尺寸范围和参数 Size Range and Specifications

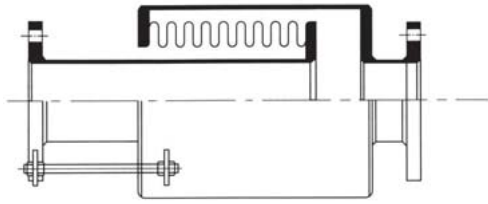
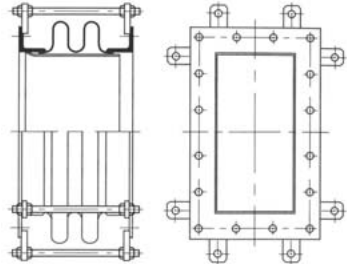
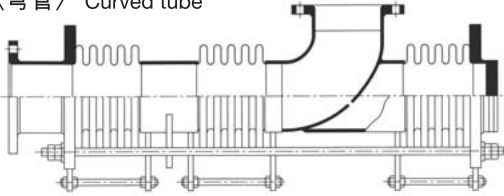
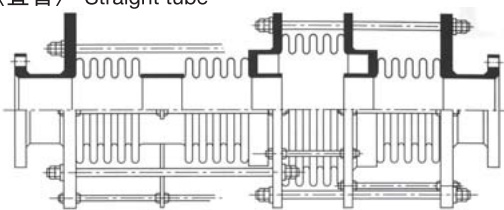
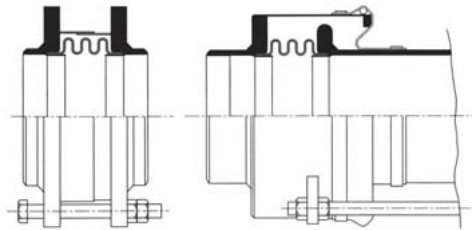
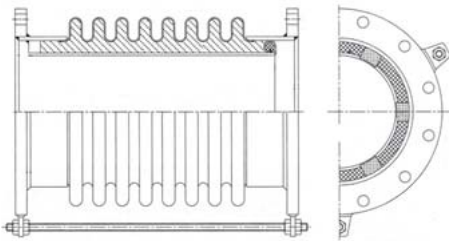
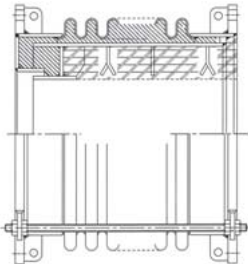
软管口径 Hose Bore Size	实质内径 Actual Hose Bore Size	外部保护外径 O/D of Cover	最小弯曲半径 Minimum Bend Radius	最大使用压力 Maximum Working Pressure	破坏压力 Burst Pressure	重量 Weight per Unit Length	最大连续长度 Maximum Continuous Length
in	mm	mm	mm	MPa	MPa	kg/m	m
1/4	6.4	6.8	19	13	52	0.17	18
3/8	9.5	9.5	25	10	40	0.22	18
1/2	12.7	12.7	38	7	28	0.37	18
3/4	19.0	19.0	63	6	24	0.65	18
1	25.4	25.4	100	5	20	0.88	18
1-1/4	32.0	32.5	130	4.4	18	1.3	18
1-1/2	38.0	38.8	170	3.8	15.8	1.698	17
2	50.0	51.5	210	2.8	12.3	2.355	13

尺寸范围和参数 Size Range and Specifications

软管口径 Hose Size	实质内径 Hose Actual I/D	外部保护外径 O/D over Silicone Cover	最小弯曲半径 Minimum Bend Radius	最大使用压力 Maximum Working Pressure	破坏压力 Burst Pressure	重量 Weight per Unit Length	最大连续长度 Maximum Continuous Length
in	mm	mm	mm	MPa	MPa	kg/m	m
1/4	6.4	6.8	30	0.75	3	0.09	18
3/8	9.5	9.5	38	0.60	2.4	0.14	18
1/2	12.7	12.7	63	0.58	2.3	0.21	18
3/4	19.0	19.0	100	0.43	1.7	0.32	18
1	25.4	25.4	150	0.35	1.4	0.49	18

膨胀节的构造及用途 Structures and Usages of Expansion Joints

型式 Type	构造图 Structure Figure	位移方向 Direction of movement	用途（流体） Usage (Fluid)
单式自由型 伸缩接头 Free type (Single)		轴向 轴直角向 Axial Direction Lateral Direction	最标准的普通用途型式 （废气，空气，油，冷、热水，蒸气） Standard type for general use (exhaust gas, air, oil, cold and hot water, steam)
非焊接伸缩接头 （ENW型） TX-10000 Non welded type		轴向 轴直角向 振动 Axial Direction Lateral Direction Vibration	吸收低压配管振动及发动机废气。 （废气） Use to absorb vibration in low pressure pipeline and engine exhaust (exhaust gas)
复式自由型 伸缩接头 Free type (Multi)		轴向 (在单式不能吸收位移的场合) Axial Direction (Use when Single type can't absorb the deflection)	能大量吸收轴向的伸缩。 （煤气，空气，油，冷、热水，蒸气） To absorb large axial displacement (gas, air, oil, cold and hot water, steam)
万能型伸缩接头 Universal type		轴直角向 （轴向） Lateral Direction (Axial Direction)	吸收轴直向的位移。 （煤气，空气，油，冷、热水，蒸气） To absorb lateral deflection (gas, air, oil, cool and hot water, steam)
铰链式伸缩接头 Hinge type		角度位移吸收 To absorb angular rotation	个别组成吸收轴向、轴直角向的位移 Axial and Lateral deflection can be absorbed by combined design.
平衡环式 伸缩接头 Gimbal type		轴直角向 角度 Lateral Deflection Angle	吸收3次元的角度位移。 To absorb angular rotation in any place (3-D)
外筒式伸缩接头 Outer pipe type		轴向 (轴直角向) Axial Direction (Lateral Direction)	保护对外来的损害 （煤气，空气，油，冷、热水，蒸气） To protect the exterior surface from foreign objects or mechanical damage. (gas, air, oil, cold and hot water, steam)

型式 Type	构造图 Structure Figure	位移方向 Direction of movement	用途（流体） Usage (Fluid)
外压式伸缩接头 Outer pressure type		轴向 Axial Direction	均衡的伸缩构造，拥排水功能。 （蒸气，排水） With an even expanding structures and the drain can be released easily (steam, drain)
方型伸缩接头 (U字形/V字形) Square type (U-type/V-type)		轴向 (V字形是低反力) Axial Direction (V-type has low spring rate)	在方形排气管道使用 To be used in ducting system of exhaust gas
压力均衡型 伸缩接头 Balanced pressure type	〈弯管〉 Curved tube 	轴向 轴直角向 Axial Direction Lateral Direction	均衡吸收推力，降低负荷。 To absorb the thrust with balance, and to minimize the reaction load
	〈直管〉 Straight tube 		
埋设型伸缩接头 Under ground type		轴向 轴直角向 Axial Direction Lateral Direction	地里埋设用途。 （自来水管道路用途） To be used as laying pipe under ground (water piping)
断热材填充式 伸缩接头 Heat insulating encapsulated type		轴向 (轴直角向) Axial Direction (Lateral Direction)	高温流体用途，防止液体的侵入沉积 （硅砂，灰，高温空气，燃烧气体） To be used to protect flowing medium packing and solidifying in high temperature fluid (Silica sand · Ash · High-temperature air · incinerated gas)
隔热耐火材料式 伸缩接头 Castable type		轴向 (轴直角向) Axial Direction (Lateral Direction)	非常高温下也有耐火，绝热性能。 （非常高温流动空气，非常高温燃烧气体） To be used as fireproof and heat insulating under ultra high temperature (flowing ultra high-temperature air flow- ultra-high temperature incinerated gas)

非金属柔性膨胀节 Non-metal soft expansion joints

由于非金属柔性膨胀节具有耐高温、耐腐蚀、位移能力大而无弹性反力且自身重量轻的优点，所以，它在电力系统、钢铁系统、化工纺织系统及排烟、除尘等领域越来越广泛地得到采用。特扶利五金制品有限公司备有的非金属柔性膨胀节就具有上述优点，其材料主要采用玻璃纤维材料，和复合材料，其结构可根据用户的不同工作温度 and 不同连接要求设计。

Non-metal soft expansion joints which are high temperature resistance, corrosion resistance, capable for large displacement, non-elastic reaction, lightweight, are widely used in the industries of electricity, iron and steel, chemical engineering, textile, smoke and dust exhaust application.

Tofle non-metal soft expansion joints offer a number of advantages mentioned above, mainly made by glass fiber composite material. Tofle guide users the most suitable design according to different working temperature and piping requirements.



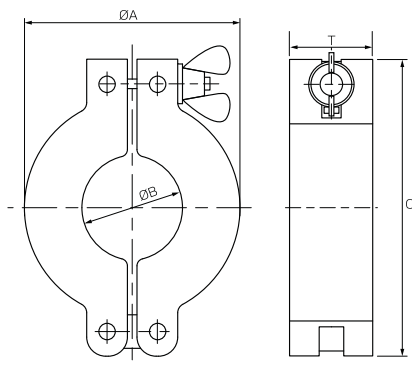
真空用途零件接头 Attachment for vacuum applications



关于长颈管束、大小头、弯头、三通、四通的详细，请联系。
About long fingers, reducing nipples, elbows, tees, crosses, please contact us.

管束 Clamps

(CL)

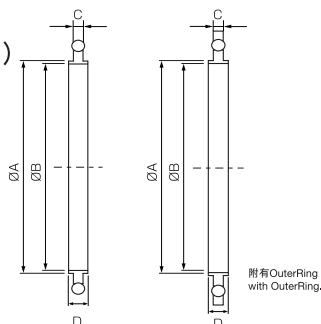


材料: Al (铝) Materials: Aluminium (长度单位: mm)

型式号码	Type	øA	øB	C	T
NW10CL		42	22	62	16
NW16CL		42	22	62	16
NW25CL		54	32	72	16
NW40CL		70	47	90	16
NW50CL		93	62	121	23

中心圈 (附有氟素O型圈)

Center ring (CV)



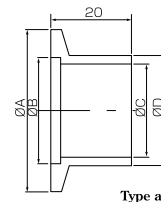
标准材质: SUS304 O型圈材质: 氟素橡胶
Standard materials: SUS304 O-ring material: fluoro rubber (长度单位: mm)

型式号码	Type	øA	øB	C	øD
NW10CV		12	10	3.9	8
NW16CV		17	16	3.9	8
NW25CV		26	24	3.9	8
NW40CV		41	39	3.9	8
NW50CV		52	50	3.9	8
NW63CV		70	99	3.9	8
NW80CV		82.8	81	3.9	8
NW100CV		101.6	100	3.9	8
NW160CV		153	150	4	8
NW200CV		213	212	4	8

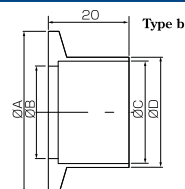
* NW63,80,100 附有OuterRing.
* NW63,80,100 is with OuterRing.

短颈管束

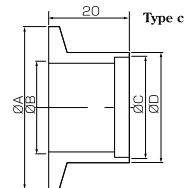
Short flanges (FS)



Type a



Type b

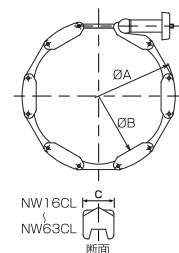


Type c

标准材质: SUS304 Standard materials: SUS304 (长度单位: mm)

型式号码	Type	øA	øB	øC	øD	Type
NW10FS	30	12.2	10.2	13.8	a	
NW16FS	30	17.2	16.0	21.7	a	
NW25FS	40	26.2	23.0	27.2	a	
NW40FS	55	41.2	37.1	42.7	a	
NW50FS	75	52.2	54.9	60.5	b	
NW63FS	87	70.3	70.0	76.3	a	
NW80FS	114	83.2	89.3	98.0	c	
NW100FS	134	102.2	110.1	114.3	b	
NW160FS	190	153	165.2	174	b	
NW200FS	252	213	219.1	230	b	

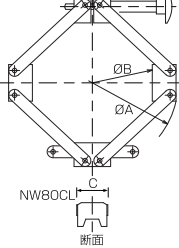
链型管束 Chain Clamps (CL)



NW16CL

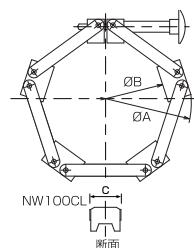
NW63CL

断面



NW80CL

断面



NW100CL

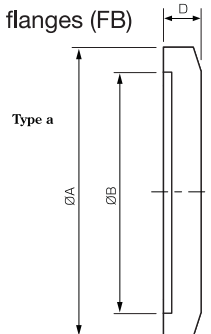
断面

材料: Al (铝)
Materials: Aluminium (长度单位: mm)

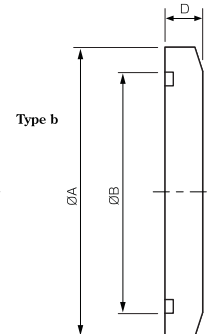
型式号码	Type	øA	øB	øC
NW63CL		120	79	20
NW80CL		165	100	37
NW100CL		172	120	37
NW160CL		232	177	37
NW200CL		293	239	37

盲板接头

Blank flanges (FB)



Type a



Type b

标准材质: SUS304 Standard materials: SUS304 (长度单位: mm)

型式号码	Type	φA	φB	D	Type
NW10FB	30	12.2	5	a	
NW16FB	30	17.2	5	a	
NW25FB	40	26.2	5	a	
NW40FB	55	41.2	5	a	
NW50FB	75	52.2	5	a	
NW63FB	87	70.0	5	b	
NW80FB	114	83.0	11	b	
NW100FB	134	102.0	11	b	

软管的正确使用 Proper Handling of Flexible Tubes

选定适合使用条件的软管，正确安装。这是为了延长产品寿命的秘诀。
The key to extending the service life is to select the model best suited for the operating conditions and handle it correctly.

安装软管时注意 Precautions

请勿扭曲!

软管不能吸收扭曲。
· 扳紧旋转接头时，请用两枝扳子。
· 弯曲要在同一平面上。

Do not twist the tubing!

No twist or torque can be absorbed by flexible tubing.
• Be sure to fasten the screw metal fittings using two wrenches.
• Bend the tubing only within one plane.

请勿过度弯曲!

过度弯曲会降低耐压性。
有反复动作时，弯曲半径越大越好。
· 请严守弯曲半径。

Do not bend the tubing excessively.

An extremely small bend decreases pressure resistance.
• Strictly observe the specified bending radius of the tubing.

保持适当的长度!

拉伸承受重量会降低附有网套的软管的耐压性。
· 保持适当的余留。

Use a sufficient length of tubing.

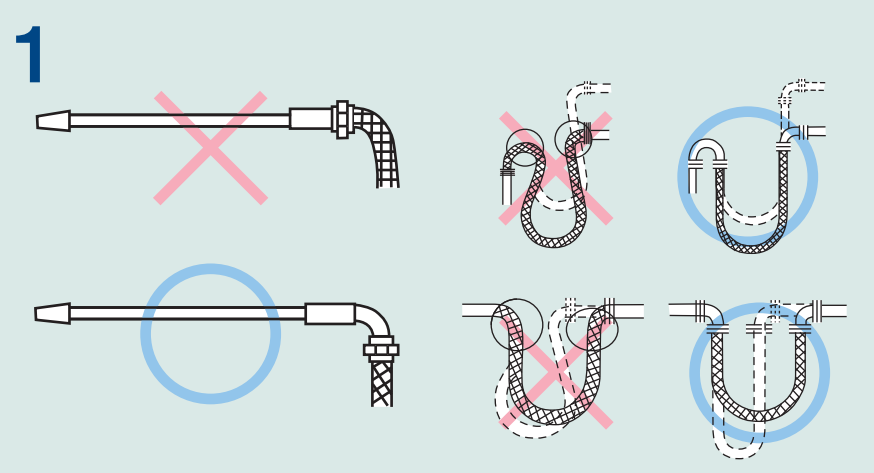
A tensile load applied to wire-braided tubing decreases pressure resistance.
• Use a sufficient length of tubing to avoid tensile load.

支撑软管的连接软管 Support Any Hose Located Next to the Tube.

没支撑的配管可能会增加振动幅度。
• Any unsupported vibrating hose may amplify vibration.

✗ 误
○ 正
Incorrect Correct

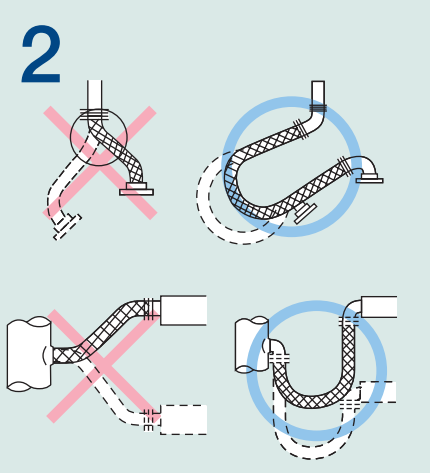
1



安装软管时，要尽量避免弯曲，保持竖直。
Use an elbow if possible.

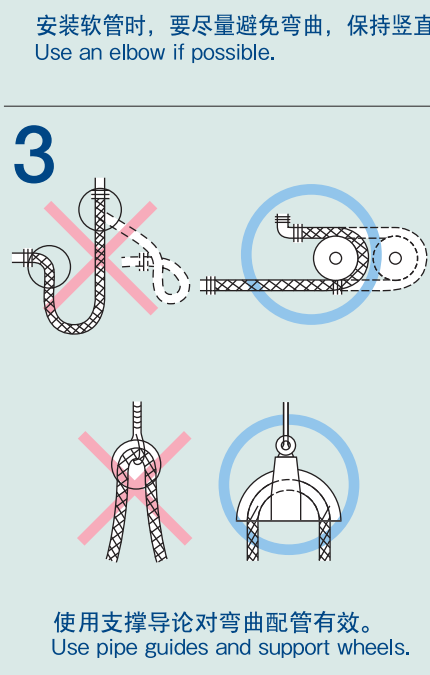
软管两端部不能弯曲，要竖直安装。
Avoid sharp bends. Maintain a sufficient bend radius.

2



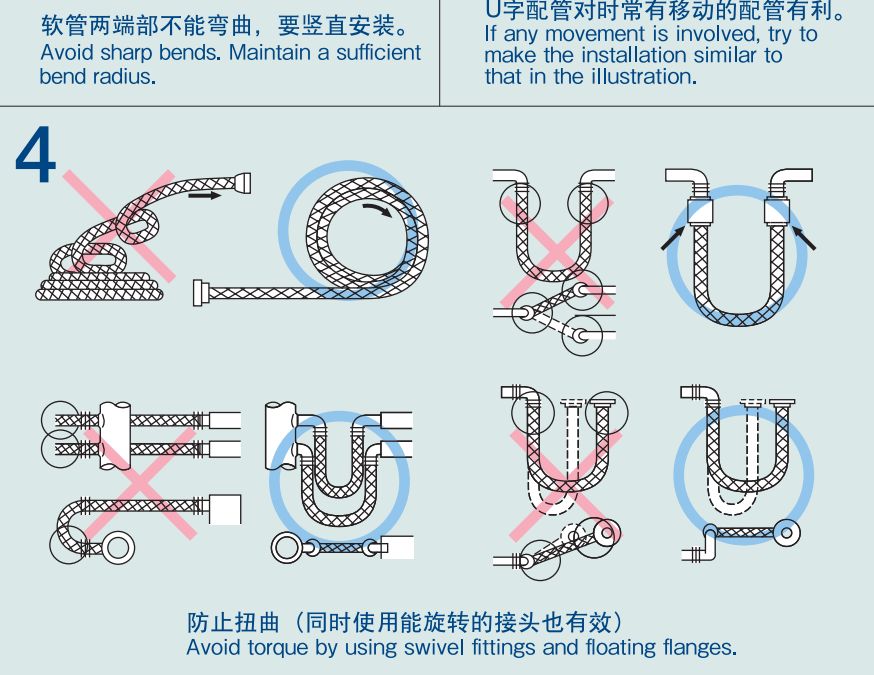
U字配管对时常有移动的配管有利。
If any movement is involved, try to make the installation similar to that in the illustration.

3



使用支撑导轮对弯曲配管有效。
Use pipe guides and support wheels.

4



防止扭曲（同时使用能旋转的接头也有效）
Avoid torque by using swivel fittings and floating flanges.

软管使用条件记录表 Using Application

请在下面方框内打勾:

Please check below boxes

- ☐ 想进一步了解特扶利的产品，希望得到特扶利的访问和产品介绍
I want to know about TOFLE products more or want explanation by visit.
- ☐ 希望邮送产品资料
I want Tofle to send catalogues.

现在使用的，或今后打算使用的软管种类:

Type of product that you use now, or you would like to use:

- ☐ 不锈钢软管
Stainless Flexible Tubes
- ☐ PTFE软管
PTFE Hoses
- ☐ 不锈钢膨胀节
Stainless Expansion Joints
- ☐ 不锈钢真空用途软管
Stainless steel tube for Vacuum Application
- ☐ 其他 ()
Others ()

软管使用条件: Application in detail

软管材质 Material			用途 Application		
口径 Nominal dia.			全长 Over all length		介质 Media
使用温度 Operating temperature			最高温度 Maximum temperature		
使用压力 Operating pressure			最高压力 Maximum pressure		
接头 Connection	种类 Type			尺寸 Size	
	材质 Material			规格 Standard	
位移量 Deflection	X方向 Axial Deflection		Y方向 Lateral Deflection		变化角度 Angular Deflection
最多使用次数 Expected life cycle			要求卫生级标准 Sanitary Grade Requirements		

软管安装略图或其他使用条件:

Please draw a rough sketch or specify other applications if any.

如果贵公司在机械设备，管道安装等方面有需要改善或解决问题，请详细记录具体情况:

If you have any problems to improve or solve about machines, or piping system, please specify the details.

公司名称 Company name:

担当者 Person in charge:

TEL:

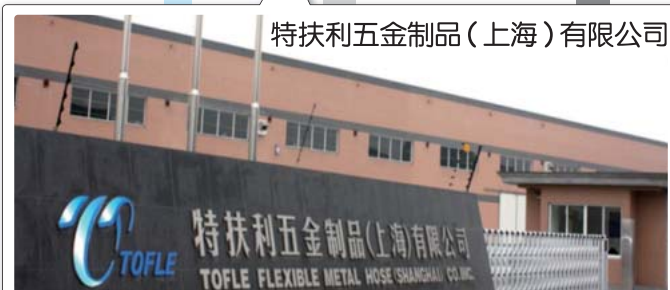
FAX:

E-mail:

地址 Adress:



公司周边图



从虹桥机场 到特扶利五金制品的 行车指南

虹桥机场
↓
G50 沪渝公路
↓
G15 沈海高速公路
↓
向叶新公路出口方向
进入叶新公路
↓
参考右图

从浦东国际机场 到特扶利五金制品的 行车指南

浦东机场
↓
S32 申嘉湖高速公路
↓
G15 沈海高速公路
↓
向叶新公路出口方向
进入叶新公路
↓
参考左图

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