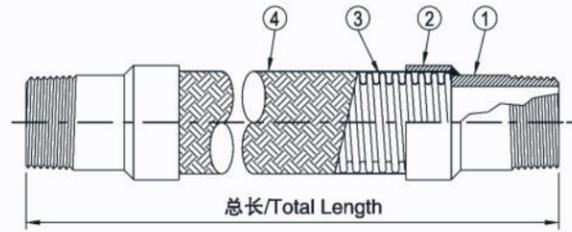


## P-1000/1000D 螺纹式防震软管

### FLEXIBLE CONNECTOR WITH SCREWED PT ENDS



#### ● 结构组合/Construction

项次 Item	配件名称 Parts	标准材质 Std.Material	选用材质 Option Material
1.	圆立布 (Round Nipple)	SUS-304	SGP/SUS-316
2.	束环 (Collar Ring)	SUS-304	
3.	波纹管 (Bellows)	SUS-304	SUS-316L/321
4.	编织网 (Wire Braids)	SUS-304	

#### ● 特性说明/FEATURES:

- 降低噪音/REDUCTION OF NOISE  
高频振动可被大幅消减  
High static pipe vibration noise will be reduced greatly.
- 隔绝振动源/VIBRATION ISOLATING  
一般机械设备振动可经由防震接头隔离  
Vibration of typical mechanical machines and equipments can be isolated through the use of the Panew Flexible Connector.

- 可挠性结构/FLEXIBLE CONSTRUCTION  
方便例行设备维修与管路拆装清洗  
Designed for simple maintenance, through routine cleaning, repairment and replacement.
- 弥补配管偏差/COMPENSATE MISALIGNMENT  
可降低因配管误差所产生之应力  
The stress due to the misalignment of the pipeline installation can be eliminated effectively through the Panew flexible connector.
- 吸收热膨胀量/ABSORPTION OF THERMAL EXPANSION  
有效吸收角度与侧向位移, 避免配管与设备损伤  
By connecting the Panew flexible connector, lateral and angular movement will be greatly reduced thus protecting and maintaining the pipes in your machines.
- 全不锈钢结构/ALL STAINLESS STEEL CONSTRUCTION  
可用于高温高压管路系统  
Effective in conditions of extreme heat and pressure.

#### ● P-1000 性能规格表/Specification

公称管径 N.D.		产品总长 Total Length(L)		软管规格 (Hose Specification)			允许之侧向位移 Allowable Movement		操作压力 Working pressure	单品重量 Weight per Unit
mm	inch	mm	inch	外径 O.D.	波纹管型式 Bellows Type	网材型式 Braids Type	Vibration	Static	kg/cm <sup>2</sup>	kg/Set
15	1/2	250	10	18.5	H(A)	S	27.7	46.8	60.0	0.16
20	3/4	250	10	25.6	H(A)	S	24.6	44.2	40.5	0.27
25	1	250	10	32.5	H(A)	S	21.4	40.4	36.3	0.34
32	1 1/4	250	10	41.7	H(A)	S	15.8	23.1	32.2	0.50
40	1 1/2	300	12	55.0	A	S	25.5	38.7	31.9	0.72
50	2	300	12	68.2	A	S	18.6	26.8	29.4	1.11
65	2 1/2	350	14	84.1	A	S	30.0	42.6	24.8	1.60
80	3	350	14	97.9	A	S	19.8	27.4	19.2	2.10

#### ● P-1000D 性能规格表/Specification

公称管径 N.D.		产品总长 Total Length(L)		软管规格 (Hose Specification)			允许之侧向位移 Allowable Movement		操作压力 Working pressure	单品重量 Weight per Unit
mm	inch	mm	inch	外径 O.D.	波纹管型式 Bellows Type	网材型式 Braids Type	Vibration	Static	kg/cm <sup>2</sup>	kg/Set
25	1	250	10	32.5	H(A)	D	16.5	35.3	58.1	0.4
32	1 1/4	250	10	41.7	H(A)	D	12.0	17.8	51.5	0.7
40	1 1/2	300	12	55.0	A	D	19.7	30.0	51.0	1.0
50	2	300	12	68.2	A	D	14.2	20.7	47.1	1.3
65	2 1/2	350	14	84.1	A	D	23.1	32.8	39.8	1.8
80	3	350	14	97.9	A	D	15.2	20.9	30.7	2.3

#上表所示操作压力以常温25℃为基准, 其最小爆破压力为4倍之操作压力值。

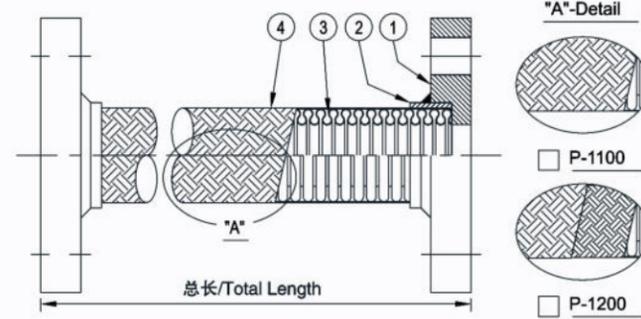
The working pressure tabulated above is based on the room temperature ( about 25℃ ) and minimum burst pressure is 4 times the working pressure.

#上表所示口径/操作压力/总长/作动量均为标准规格, 本公司亦可依客户实际需求定制。

The size, working pressure, total length, and movement tabulated above is the standard specification. We can also deliver products against your requests.

## P-1100/1200 法兰式防震软管

### FLEXIBLE CONNECTOR WITH FLANGE ENDS



#### ● 结构组合/Construction

项次 Item	配件名称 Parts	标准材质 Std.Material	选用材质 Option Material
1.	法兰 (Flange)	SS-400	SUS-304/SUS-316
2.	束环 (Collar Ring)	SUS-304	
3.	波纹管 (Bellows)	SUS-304	SUS-316L/321
4.	编织网 (Wire Braids)	SUS-304	

#法兰标准规格 (Flange Standard) : JIS, GB.

其余规格亦可依实际需求选用, 如ANSI, DIN, BS...等。

Other standard flanges are available, like ANSI, DIN, BS...etc.

#### ● P-1100 性能规格表/Specification

公称管径 N.D.		产品总长 Total Length(L)		软管规格 (Hose Specification)			允许之侧向位移 Allowable Movement		操作压力 Working pressure	单品重量 Weight (GB-PN10)
mm	inch	mm	inch	外径 O.D.	波纹管型式 Bellows Type	网材型式 Braids Type	Vibration	Static	kg/cm <sup>2</sup>	kg/set
32	1 1/4	200	8	41.7	H(A)	S	27.6	39.6	32.2	3.6
40	1 1/2	200	8	55.0	A	S	20.5	31.2	31.9	3.9
50	2	230	9	68.2	A	S	29.1	41.8	29.4	5.3
65	2 1/2	230	9	84.1	A	S	23.8	34.0	24.9	6.2
80	3	230	9	97.9	A	S	21.9	30.2	19.2	7.1
100	4	230	9	123.7	A	S	17.6	24.3	18.3	8.9
125	5	280	11	152.1	A	S	20.7	29.2	17.3	11.3
150	6	280	11	178.6	A	S	17.4	24.3	16.8	15.3
200	8	300	12	230.9	A	S	15.7	22.3	11.9	19.8
250	10	330	13	280.9	A	S	17.3	24.0	11.6	26.4
300	12	350	14	334.1	A	S	13.3	19.5	10.6	31.4
350	14	350	14	372.1	A	S	12.2	17.7	10.4	46.9

#### ● P-1200 性能规格表/Specification

公称管径 N.D.		产品总长 Total Length(L)		软管规格 (Hose Specification)			允许之侧向位移 Allowable Movement		操作压力 Working pressure	单品重量 Weight (GB-PN16)
mm	inch	mm	inch	外径 O.D.	波纹管型式 Bellows Type	网材型式 Braids Type	Vibration	Static	kg/cm <sup>2</sup>	kg/set
50	2	230	9	68.2	A	D	22.4	32.1	47.1	5.4
65	2 1/2	230	9	84.1	A	D	18.3	26.1	39.8	6.4
80	3	230	9	97.9	A	D	15.9	21.9	30.7	7.2
100	4	230	9	123.7	A	D	12.3	16.8	29.3	9.2
125	5	280	11	152.1	A	D	15.3	21.6	27.7	11.8
150	6	280	11	178.6	A	D	12.8	17.8	26.8	16.0
200	8	300	12	230.9	A	D	11.3	15.9	18.9	21.8
250	10	330	13	280.9	A	D	12.5	17.3	18.6	32.4
300	12	350	14	334.1	A	D	9.3	13.7	16.9	44.2
350	14	350	14	372.1	A	D	8.3	12.0	16.6	61.5

#上表所示操作压力以常温25℃为基准, 其最小爆破压力为4倍之操作压力值。

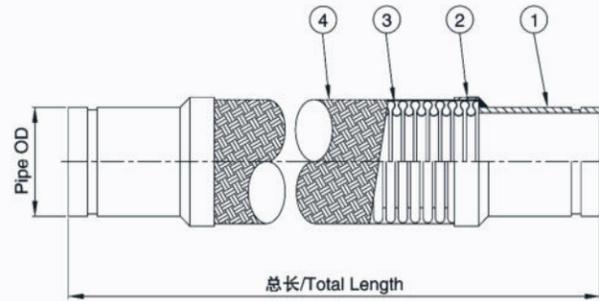
The working pressure tabulated above is based on the room temperature ( about 25℃ ) and minimum burst pressure is 4 times the working pressure.

#上表所示口径/操作压力/总长/作动量均为标准规格, 本公司亦可依客户实际需求定制。

The size, working pressure, total length, and movement tabulated above is the standard specification. We can also deliver products against your requests.

## P-1011 沟槽式防震软管

### FLEXIBLE CONNECTOR WITH GROOVED ENDS



#### ● 结构组合/Construction

项次 Item	配件名称 Parts	标准材质 Std.Material	选用材质 Option Material
1.	沟槽管(Grooved Pipe)	SS-400	SUS-304/SUS-316
2.	束环(Collar Ring)	SUS-304	
3.	波纹管(Bellows)	SUS-304	SUS-316L/SUS-321
4.	编织网(Wire Braids)	SUS-304	



# 沟槽管可通过车削或轧制而成，依客户需求或使用压力而定。  
Grooved pipes can be turned or rolled, depending on customer requirements.

# 沟槽管外径依下表制作，若需其它外径尺寸请与本公司洽商。  
The outside diameter of grooved pipe is made according to the table below.  
If you need other outside diameter size, please consult with our company.

#### ● P-1011S 性能规格表/Specification

公称管径 N.D.		产品总长 Total Length(L)		软管规格 (Hose Specification)			允许之侧向位移 Allowable Movement		操作压力 Working pressure	单品重量 Unit weight (Cutting Pipe)
mm	inch	mm	inch	波纹管外径 Bellows O.D.	波纹管型式 Bellows Type	沟槽管外径 Pipe O.D.	Vibration	Static	kg/cm <sup>2</sup>	kg/set
25	1	400	16	32.5	H(A)	33.4	50.4	64.4	36.3	0.7
32	1¼	400	16	41.7	H(A)	42.2	46.5	60.6	32.2	0.9
40	1½	400	16	55.0	A	48.3	34.8	51.7	31.9	1.2
50	2	400	16	68.2	A	60.3	26.4	38.0	29.4	1.6
65	2½	400	16	84.1	A	76.1	17.4	24.9	24.9	2.4
80	3	400	16	97.9	A	88.9	16.0	22.1	19.2	2.9
100	4	500	20	123.7	A	114.3	26.2	36.0	18.3	4.8
125	5	500	20	152.1	A	141.3	18.8	26.5	17.3	6.1
150	6	500	20	178.6	A	168.3	16.4	22.9	16.8	7.9
200	8	500	20	230.9	A	219.1	12.3	17.5	11.9	11.4
250	10	600	24	280.9	A	273.0	15.7	21.8	11.6	17.2
300	12	600	24	334.1	A	323.9	10.3	15.2	10.6	23.6
350	14	600	24	372.1	A	355.6	9.8	14.2	10.4	26.1
400	16	600	24	420.1	A	406.4	8.8	12.5	8.3	33.0

#### ● P-1011D 性能规格表/Specification

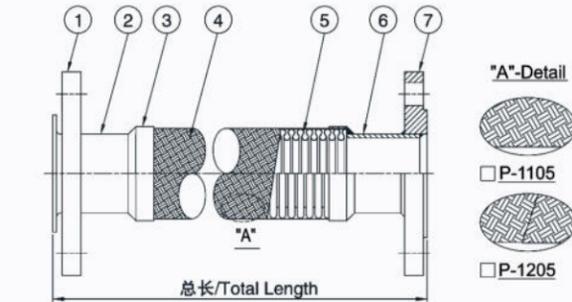
公称管径 N.D.		产品总长 Total Length(L)		软管规格 (Hose Specification)			允许之侧向位移 Allowable Movement		操作压力 Working pressure	单品重量 Unit weight (Cutting Pipe)
mm	inch	mm	inch	波纹管外径 Bellows O.D.	波纹管型式 Bellows Type	沟槽管外径 Braids Type	Vibration	Static	kg/cm <sup>2</sup>	kg/set
65	2½	400	16	84.1	A	76.1	14.5	20.8	39.8	2.6
80	3	400	16	97.9	A	88.9	13.4	18.5	30.7	3.1
100	4	500	20	123.7	A	114.3	21.8	30.1	29.3	5.2
125	5	500	20	152.1	A	141.3	15.7	22.1	27.7	6.6
150	6	500	20	178.6	A	168.3	13.6	19.1	26.8	8.7
200	8	500	20	230.9	A	219.1	10.3	14.6	18.9	12.5
250	10	600	24	280.9	A	273.0	13.1	18.2	18.6	18.7
300	12	600	24	334.1	A	323.9	8.6	12.7	16.9	25.6
350	14	600	24	372.1	A	355.6	8.2	11.8	16.6	28.3
400	16	600	24	420.1	A	406.4	7.5	10.6	13.2	35.6

#上表所示操作压力以常温25℃为基准，其最小爆破压力为4倍之操作压力值。  
The working pressure tabulated above is based on the room temperature ( about 25℃ ) and minimum burst pressure is 4 times the working pressure.

#上表所示口径/操作压力/总长/作动量均为标准规格，本公司亦可依客户实际需求定制。  
The size, working pressure, total length, and movement tabulated above is the standard specification. We can also deliver products against your requests.

## P-1200 加长型金属软管

### LONG-TYPE FLEXIBLE HOSE WITH FLANGE ENDS



#### ● 结构组合/Construction

项次 Item	配件名称 Parts	标准材质 Std.Material	选用材质 Option Material
1.	活动法兰(Loose Flange)	SS-400	SUS-304/SUS-316
2.	翻边管(Lap Joint)	SS-400	SUS-304/SUS-316
3.	束环(Collar Ring)	SUS-304	---
4.	编织网(Wire Braids)	SUS-304	---
5.	波纹管(Bellows)	SUS-304	SUS-316L/321
6.	端管(End Pipe)	SS-400	SUS-304/SUS-316
7.	固定法兰(Fixed Flange)	SS-400	SUS-304/SUS-316



#法兰标准规格 ( Flange Standard ) : JIS,GB.  
其余规格亦可依实际需求选用，如ANSI,DIN,BS...等。  
Other standard flanges are available, like ANSI, DIN, BS...etc.

#### ● P-1105 性能规格表/Specification

公称管径 N.D.		产品总长 Total Length(L)		软管规格 (Hose Specification)			允许之侧向位移 Allowable Movement		操作压力 Working pressure	单品重量 Unit weight (GB-PN10)
mm	inch	mm	inch	外径 O.D.	波纹管型式 Bellows Type	网材型式 Braids Type	Vibration	Static	kg/cm <sup>2</sup>	kg/set
32	1¼	500	20	41.7	A	S	136.5	150.6	32.2	4.1
40	1½	500	20	55.0	A	S	121.2	141.7	31.9	4.7
50	2	500	20	68.2	A	S	118.6	137.8	29.4	6.3
65	2½	500	20	84.1	A	S	98.4	120.1	24.9	7.6
80	3	500	20	97.9	A	S	92.3	113.8	19.2	8.9
100	4	500	20	123.7	A	S	62.4	84.7	18.3	11.1
125	5	600	24	152.1	A	S	78.3	109.1	17.3	15.1
150	6	600	24	178.6	A	S	68.3	94.8	16.8	20.6
200	8	600	24	230.9	A	S	44.4	62.8	11.9	27.8
250	10	800	32	280.9	A	S	79.1	108.9	11.6	38.7
300	12	800	32	334.1	A	S	52.3	76.6	10.6	49.4
350	14	800	32	372.1	A	S	49.5	71.4	10.4	68.4

#### ● P-1205 性能规格表/Specification

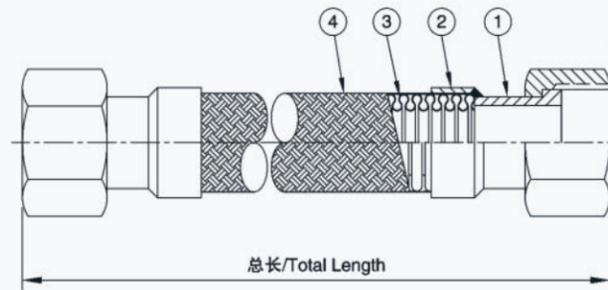
公称管径 N.D.		产品总长 Total Length(L)		软管规格 (Hose Specification)			允许之侧向位移 Allowable Movement		操作压力 Working pressure	单品重量 Unit weight (GB-PN16)
mm	inch	mm	inch	外径 O.D.	波纹管型式 Bellows Type	网材型式 Braids Type	Vibration	Static	kg/cm <sup>2</sup>	kg/set
50	2	500	20	68.2	A	D	106.4	129.4	47.1	6.7
65	2½	500	20	84.1	A	D	84.2	110.2	39.8	8.0
80	3	500	20	97.9	A	D	77.6	102.5	30.7	9.4
100	4	500	20	123.7	A	D	52.2	71.5	29.3	11.7
125	5	600	24	152.1	A	D	65.5	91.8	27.7	16.0
150	6	600	24	178.6	A	D	57.0	79.5	26.8	22.1
200	8	600	24	230.9	A	D	37.0	52.4	18.9	30.7
250	10	800	32	280.9	A	D	66.1	91.2	18.6	46.4
300	12	800	32	334.1	A	D	43.6	64.0	16.9	63.6
350	14	800	32	372.1	A	D	41.3	59.6	16.6	85.2

#上表所示操作压力以常温25℃为基准，其最小爆破压力为4倍之操作压力值。  
The working pressure tabulated above is based on the room temperature ( about 25℃ ) and minimum burst pressure is 4 times the working pressure.

#上表所示口径/操作压力/总长/作动量均为标准规格，本公司亦可依客户实际需求定制。  
The size, working pressure, total length, and movement tabulated above is the standard specification. We can also deliver products against your requests.

## P-1400 各式接头金属软管

### FLEXIBLE HOSE WITH SPECIFICATION FITTINGS



#### ●结构组合/Construction

项次 Item	配件名称 Parts	标准材质 Std.Material	选用材质 Option Material
1.	各式接头(End Fittings)	SUS-304	SUS-316L/SS-400
2.	束环(Collar Ring)	SUS-304	
3.	波纹管(Bellows)	SUS-304	SUS-316L/SUS-321
4.	编织网(Wire Braids)	SUS-304	



#软管两端采用各式特殊接头,如活动内牙、快速接头、KF法兰等,具体详见接头型式页P7-P8。  
All kinds of special connectors are used at both ends of hose, such as movable inner teeth, quick connectors, KF flanges, etc. See P7-P8 for details.

#### ●P-1400 螺旋成型软管/Helical Corrugated Hose

公称管径 N.D.		波纹管规格 (Bellows Specification)			网材规格 (Braids Spec.)			最小弯曲半径 Min.Bend Radius		单位重量/Weight		操作压力 Working Pressure
mm	inch	内径 I.D.	外径 O.D.	壁厚 Thick	线径 Wire φ	股数 Thread	锭数 Bunch	Static	Flexing	波纹管 Bellows	单网型 Braided	
8	1/4	7.8	11.0	0.20	0.3	5	24	30	85	0.07	0.17	108.0
10	3/8	10.5	15.2	0.20	0.3	7	24	35	100	0.13	0.27	87.0
15	1/2	13.4	18.5	0.20	0.3	8	24	40	115	0.17	0.32	60.0
20	3/4	19.8	25.6	0.20	0.3	8	36	50	130	0.24	0.45	41.0
25	1	25.5	32.5	0.25	0.3	9	36	65	150	0.32	0.58	35.7
32	1 1/4	31.3	41.7	0.25	0.3	12	36	75	170	0.41	0.82	31.6
40	1 1/2	40.4	55.0	0.35	0.4	10	48	95	225	0.61	1.16	41.8
50	2	51.5	68.2	0.40	0.4	11	48	115	255	0.81	1.49	28.9

#### ●P-1400 单环成型软管/Annular Corrugated Hose

公称管径 N.D.		波纹管规格 (Bellows Specification)			网材规格 (Braids Spec.)			最小弯曲半径 Min.Bend Radius		单位重量/Weight		操作压力 Working Pressure
mm	inch	内径 I.D.	外径 O.D.	壁厚 Thick	线径 Wire φ	股数 Thread	锭数 Bunch	Static	Flexing	波纹管 Bellows	单网型 Braided	
20	3/4	20.0	26.6	0.22	0.3	8	36	85	130	0.38	0.64	41.0
25	1	25.5	33.0	0.25	0.3	9	36	100	155	0.51	0.92	35.7
32	1 1/4	31.3	41.7	0.25	0.3	12	36	115	170	0.63	1.18	31.6
40	1 1/2	40.4	55.0	0.35	0.4	10	48	150	230	1.03	1.72	41.8
50	2	51.5	68.2	0.4	0.4	11	48	165	240	1.32	2.07	28.9
65	2 1/2	64.5	84.1	0.4	0.4	14	48	195	280	1.65	2.57	24.4
80	3	77.0	97.9	0.4	0.4	10	72	220	305	1.97	2.99	18.8
100	4	102.0	123.7	0.4	0.4	16	72	275	380	2.61	4.21	18.0
125	5	127.0	152.1	0.5	0.5	11	96	375	530	4.05	6.18	17.0
150	6	152.5	178.6	0.5	0.5	15	96	435	610	4.87	7.42	16.5
200	8	200.0	230.9	0.6	0.5	18	96	570	810	7.65	12.25	11.6
250	10	250.0	280.9	0.6	0.6	16	112	660	915	9.54	15.11	11.4
300	12	298.0	334.1	0.8	0.6	16	144	945	1390	15.17	21.85	10.4
350	14	334.0	372.1	0.8	0.6	19	148	1015	1470	17.01	24.25	10.2

#上表所示操作压力以常温25℃为准,其最小爆破压力为4倍之操作压力值。  
The working pressure tabulated above is based on the room temperature (about 25℃) and minimum burst pressure is 4 times the working pressure.  
#上表所示口径/操作压力/总长/作动量均为标准规格,本公司亦可依客户需求定制。  
The size, working pressure, total length, and movement tabulated above is the standard specification. We can also deliver products against your requests.

## P-1955 风机盘管软接

### FLEXIBLE CONNECTOR WITH SCREWED PT ENDS

#### ●结构组合/Construction

项次 Item	配件名称 Parts	标准材质 Std.Material	选用材质 Option Material
1.	活动立布 (Nipple)	SS-400	Cu (镀铬)
2.	波纹管 (Bellows)	SUS-304	SUS-316L/321
3.	松套螺母 (Nut)	SS-400	Cu (镀铬)

#### ●特性说明/FEATURES:

暖通空调风机盘管软接是参考国际同行标准,同时依据GB50243-2002有关规定,利用先进技术和制程自主开发的不锈钢波纹管。  
HVAC fan coil soft is reference to international industry standards, at the same time according to the relevant provisions of the GB50243-2002, using advanced technologies and processes developed stainless steel corrugated hose.

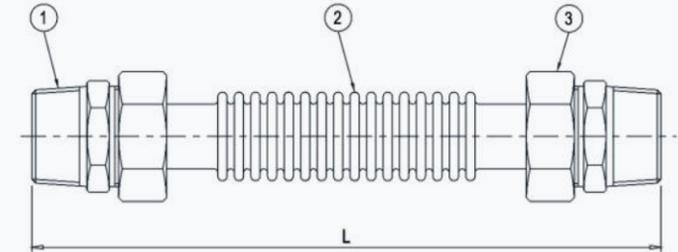
风机盘管软接之波纹管材料采用奥氏体不锈钢,因而保证了软管优良的耐高温性和腐蚀性,软接工作温度范围为-10℃~300℃。  
Fan coil soft of austenitic stainless steel corrugated pipe material, thus ensure the good temperature resistance and corrosion resistance of the hose, soft after working temperature range for -10℃ ~ 300℃.

风机盘管软接为薄壁不锈钢管体通过挤压成型,优质的单环波,使软接具有较强的柔韧性、伸缩性、弯曲性和抗震能力。  
Fan coil soft pick for thin wall stainless steel pipe by extrusion forming, the quality of the single wave, make soft soldering has strong flexibility, scalability, flexibility and anti-seismic ability.

#### ●P-1955 性能规格表/Specification

公称管径 N.D.		产品总长 Total Length(L)			软管规格 (Hose Specification)			允许之侧向位移 Lateral Movement Static	操作压力 working pressure	单品重量 Weight/pc
mm	inch	mm	inch	外径 O.D.	波纹管型式 Bellows Type	有效面积 Eff.Area				
20	3/4	170	6.8	24.0	A	3.38	5.0	16.0	0.22	
20	3/4	200	8.0	24.0	A	3.38	8.0	16.0	0.23	
20	3/4	250	10.0	24.0	A	3.38	10.0	16.0	0.24	
25	1	170	6.8	29.0	A	5.11	5.0	16.0	0.30	
25	1	200	8.0	29.0	A	5.11	8.0	16.0	0.32	
25	1	250	10.0	29.0	A	5.11	10.0	16.0	0.34	

#上表所示操作压力以常温25℃为准,其最小爆破压力为4倍之操作压力值。  
The working pressure tabulated above is based on the room temperature (about 25℃) and minimum burst pressure is 4 times the working pressure.  
#上表所示口径/操作压力/总长/作动量均为标准规格,本公司亦可依客户需求定制。  
The size, working pressure, total length, and movement tabulated above is the standard specification. We can also deliver products against your requests.



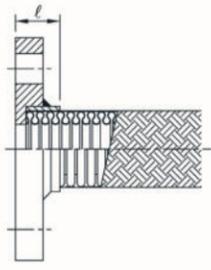
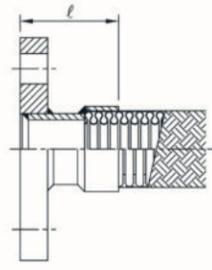
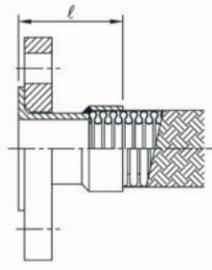
风机盘管软接经耐压强度、气密性、伸长率、侧向变位及疲劳振动多项测试,最大程度的保障安全。  
Fan coil soft crushing strength, air tightness, elongation, lateral displacement and vibration fatigue test, the greatest degree of safety.

风机盘管软接广泛用于办公大楼、厂房等建筑的暖通(空调)系统,所需风机盘管机组的进、出口管道连接中。  
Fan coil soft joint is widely used in office buildings, factories and other buildings of HVAC (air conditioning) system, the import and export of fan coil units required in the pipe connection.

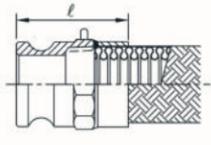
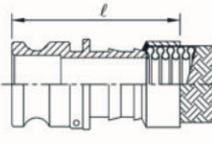
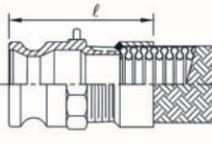
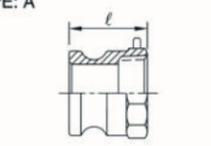
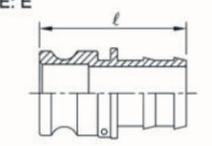
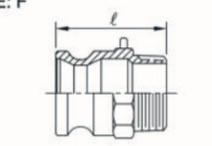
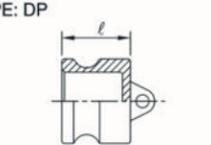
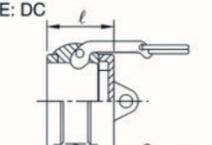
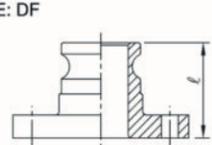


## 接头型式 End Fittings Profile

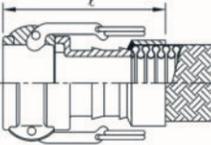
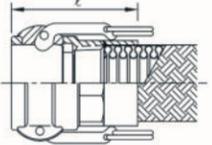
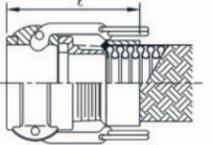
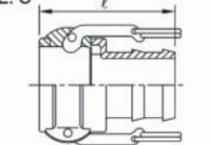
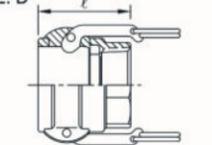
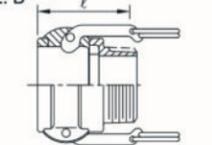
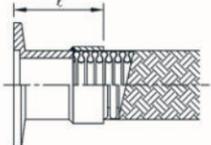
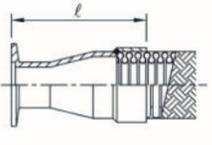
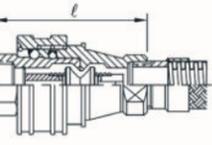
### 1. 法兰配接 ( Flanged Ends )

编号/口径 Model/Size	配件图视 Model/Size	编号/口径 Model/Size	配件图视 Model/Size	编号/口径 Model/Size	配件图视 Model/Size
BN Ø1/2" / Ø16"		BF Ø1/2" / Ø10"		BB Ø1/2" / Ø10"	

### 2.1 快速接头配接 ( Quickly Coupling Ends )

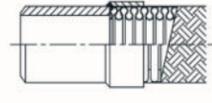
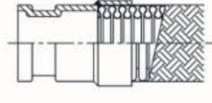
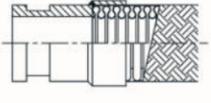
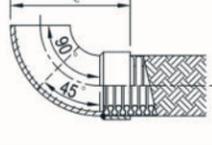
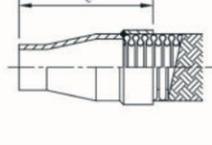
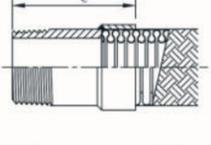
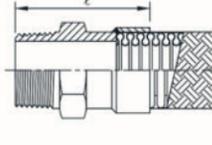
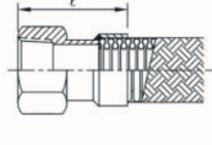
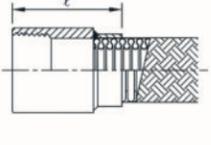
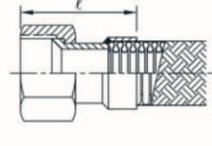
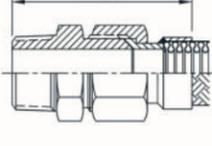
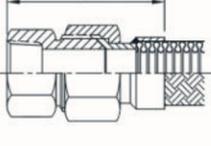
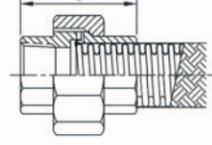
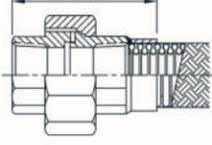
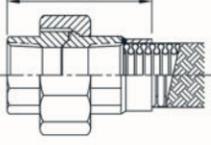
QN Ø1/2" / Ø6"		QL Ø1/2" / Ø6"		QP Ø1/2" / Ø6"	
	TYPE: A 		TYPE: E 		TYPE: F 
QM Ø1/2" / Ø6"	TYPE: DP 	QE Ø1/2" / Ø6"	TYPE: DC 	QO Ø1/2" / Ø6"	TYPE: DF 

### 2.2 快速接头配接 ( Quickly Coupling Ends )

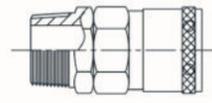
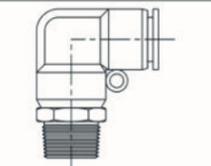
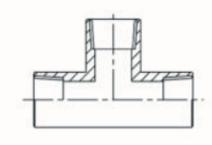
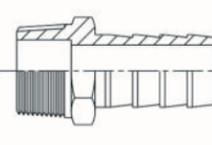
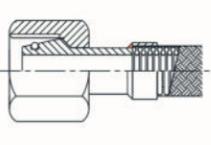
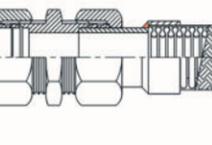
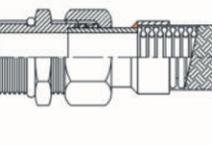
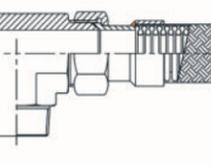
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	TYPE: C 		TYPE: D 		TYPE: B 
KF Ø3/8" / Ø2"		KR Ø3/8" / Ø2"		KD Ø1/2" / Ø3"	

## 接头型式 End Fittings Profile

### 3. 管 / 牙接头配接 ( Pipe / Screwed Ends )

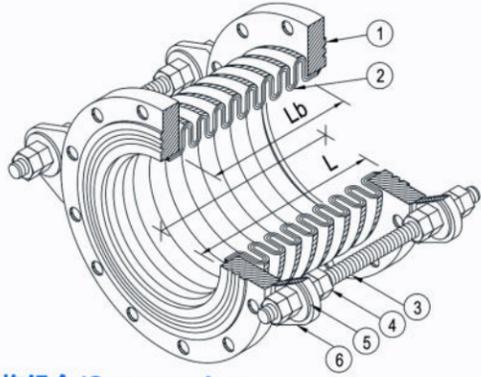
编号/口径 Model/Size	配件图视 Model/Size	编号/口径 Model/Size	配件图视 Model/Size	编号/口径 Model/Size	配件图视 Model/Size
PP Ø1/2" / Ø16"		GP Ø1-1/2" / Ø16"		CP Ø1-1/2" / Ø16"	
EP Ø1-1/2" / Ø16"		RP Ø1-1/2" / Ø16"		PT Ø1/2" / Ø4"	
SM Ø1/2" / Ø2"		SF Ø1/2" / Ø2"		PC Ø1/2" / Ø4"	
SN Ø1/2" / Ø2"		SNM (NM) Ø1/2" / Ø2"		SNF (NF) Ø1/2" / Ø2"	
UU Ø1/2" / Ø1-1/2"		US Ø1/2" / Ø3"		UT Ø1/2" / Ø3"	

### 4. 二次配接头 ( Coupling Ends )

GSM Ø1/4" / Ø1/2"		CPP Ø8mm / Ø12mm		SPL Ø4mm / Ø16mm	
TEE Ø1/2" / Ø2"		PMJ Ø1/4" / Ø1"		OSN Ø1/4" / Ø1-1/2"	
DSN Ø1/2" / Ø2"		OSNM Ø1/2" / Ø2"		ESN Ø1/2" / Ø2"	

## P-2000/P-2200 金属软接

### FLEXIBLE STEEL PUMP CONNCTOR



#### ● 结构组合/Construction

项次 Item	配件名称 Parts	标准材质 Std.Material	选用材质 Option Material
1.	法兰 ( Flange )	SS-400	SUS-304/SUS-316
2.	波纹管 ( Bellows )	SUS-304	SUS-316/SUS-316L
3.	束缚螺杆 ( Tie Rods )	SS-400	SUS-304

项次 Item	配件名称 Parts	标准材质 Std.Material	选用材质 Option Material
4.	螺帽 ( Nuts )	SS-400	SUS-304
5.	垫片 ( Washer )	SS-400	SUS-304
6.	焊耳 ( Lug )	SS-400	SUS-304/SUS-316

#### ● P-2000 性能规格表/Specification

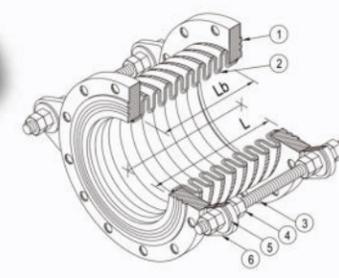
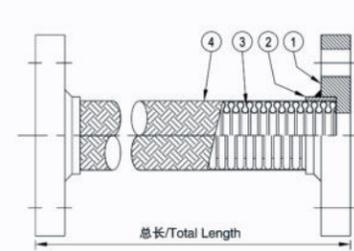
公称管径 N.D.		产品总长 Total Length(L)		波纹管规格 ( Bellows Specification )				容许变位 ( Deflection )			操作压力 Working pressure	单品重量 Weight/pc (GB-PN10)
mm	inch	mm	inch	有效长度 Eff.Length	外径 O.D.	有效面积 Eff.Area	弹性系数 Spring Rate	轴向 Axial	侧向 Lateral	角度 Angular	kg/cm <sup>2</sup>	kg/pc
40	1½	130	5.2	96	65.7	25.8	10.8	±15	10.0	10.0	10.0	5.1
50	2	150	6	110	81.2	39.3	14.5	±15	10.0	10.0	10.0	6.5
65	2½	150	6	110	97.2	59.0	17.9	±15	10.0	10.0	10.0	7.4
80	3	150	6	120	113.7	80.4	15.3	±15	10.0	8.0	10.0	8.3
100	4	150	6	130	139.7	127.1	19.1	±15	10.0	10.0	10.0	9.9
125	5	150	6	108	165.7	184.3	22.9	±15	8.0	10.0	10.0	13.1
150	6	150	6	105	196.7	257.6	31.1	±15	5.6	10.0	10.0	16.8
200	8	200	8	150	247.7	423.1	27.7	±15	8.7	10.0	10.0	23.7
250	10	200	8	140	305.7	646.5	65.1	±15	5.2	10.0	10.0	30.7
300	12	200	8	140	355.5	890.4	76.4	±15	4.4	9.0	10.0	37.0
350	14	200	8	140	399.0	1123.4	64.8	±15	4.5	9.1	10.0	55.4
400	16	250	10	200	458.7	1470.5	64.7	±15	8.2	10.0	10.0	69.9
450	18	250	10	180	500.0	1727.6	55.3	±15	7.3	10.0	10.0	93.9
500	20	250	10	180	551.0	2123.7	60.9	±15	6.5	9.5	10.0	113.2
550	22	250	10	180	602.0	2558.9	109.0	±15	5.0	8.2	10.0	115.6
600	24	250	10	180	653.0	3036.6	124.5	±15	4.5	7.6	10.0	154.0

#### ● P-2200 性能规格表/Specification

公称管径 N.D.		产品总长 Total Length(L)		波纹管规格 ( Bellows Specification )				容许变位 ( Deflection )			操作压力 Working pressure	单品重量 Weight/pc (GB-PN16)
mm	inch	mm	inch	有效长度 Eff.Length	外径 O.D.	有效面积 Eff.Area	弹性系数 Spring Rate	轴向 Axial	侧向 Lateral	角度 Angular	kg/cm <sup>2</sup>	kg/pc
40	1½	130	5.2	96	65.7	25.4	15.6	±15	7.2	6.4	16	5.2
50	2	150	6	110	81.2	38.6	22.2	±15	8.7	6.2	16	6.8
65	2½	150	6	110	97.2	58.2	27.1	±15	10.0	9.3	16	7.7
80	3	150	6	108	113.7	79.5	23.6	±15	9.9	7.9	16	8.7
100	4	150	6	108	139.7	125.9	29.2	±15	8.6	10.0	16	11.2
125	5	150	6	108	165.7	182.9	34.9	±15	6.9	10.0	16	15.0
150	6	150	6	105	196.7	255.4	41.1	±15	5.8	10.0	16	19.0
200	8	200	8	150	247.7	420.6	43.8	±15	8.8	8.2	16	27.4
250	10	200	8	140	305.7	643.4	82.8	±15	6.0	10.0	16	39.8
300	12	200	8	140	355.5	886.7	95.9	±15	5.0	10.0	16	52.5
350	14	200	8	140	399.0	1119.3	81.1	±15	5.1	10.0	16	74.0
400	16	250	10	175	458.7	1464.0	90.7	±15	7.0	10.0	16	98.3
450	18	250	10	180	500.0	1718.9	84.6	±15	7.5	10.0	16	133.9
500	20	250	10	180	551.0	2115.6	121.3	±15	6.6	10.0	16	176.2
550	22	250	10	180	602.0	2551.8	127.2	±15	6.0	9.8	16	209.3
600	24	250	10	150	653.0	3028.8	174.3	±15	4.7	7.8	16	268.8

## P-1210/2201 全不锈钢软接

### STAINLESS STEEL FLEXIBLE CONNCTOR



#### ● 结构组合/Construction

项次 Item	配件名称 Parts	标准材质 Std.Material	选用材质 Option Material
1.	法兰 ( Flange )	SUS-304	SUS-316L
2.	束环 ( Collar Ring )	SUS-304	
3.	波纹管 ( Bellows )	SUS-304	SUS-316L/SUS-321
4.	编织网 ( Wire Braids )	SUS-304	

项次 Item	配件名称 Parts	标准材质 Std.Material	选用材质 Option Material
1.	法兰 ( Flange )	SUS-304	SUS-316L
2.	波纹管 ( Bellows )	SUS-304	SUS-316L/SUS-321
3.	束缚螺杆 ( Tie Rods )	SUS-304	
4.	螺母 ( Nuts )	SUS-304	
5.	垫片 ( Washer )	SUS-304	
6.	焊耳 ( Lug )	SUS-304	

#### ● P-1210 性能规格表/Specification

公称管径 N.D.		产品总长 Total Length(L)		软管规格 ( Bellows Specification )			允许之侧向位移 Allowable Movement		操作压力 Working pressure	单品重量 Weight/pc (GB-PN16)
mm	inch	mm	inch	外径 O.D.	波纹管型式 Bellows Type	网材型式 Braids Type	Vibration	Static	kg/cm <sup>2</sup>	kg/pc
40	1½	200	8	55.0	A	S	20.5	31.2	16	4.4
50	2	230	9	68.2	A	S	29.1	41.8	16	5.7
65	2½	230	9	84.1	A	S	23.8	34.0	16	6.7
80	3	230	9	97.9	A	S	21.9	30.2	16	7.6
100	4	230	9	123.7	A	S	17.6	24.3	16	9.8
125	5	280	11	152.1	A	S	20.7	29.2	16	12.4
150	6	280	11	178.6	A	S	17.4	24.3	16	17.0
200	8	300	12	230.9	A	D	15.7	22.3	16	22.8
250	10	330	13	280.9	A	D	17.3	24.0	16	33.9
300	12	350	14	334.1	A	D	13.3	19.5	16	46.2

#### ● P-2201 性能规格表/Specification

公称管径 N.D.		产品总长 Total Length(L)		波纹管规格 ( Bellows Specification )				容许变位 ( Deflection )			操作压力 Working pressure	单品重量 Weight/pc (GB-PN16)
mm	inch	mm	inch	有效长度 Eff.Length	外径 O.D.	有效面积 Eff.Area	弹性系数 Spring Rate	轴向 Axial	侧向 Lateral	角度 Angular	kg/cm <sup>2</sup>	kg/pc
40	1½	130	5.2	96	65.7	25.4	15.6	±15	7.2	6.4	16	5.2
50	2	150	6	110	81.2	38.6	22.2	±15	8.7	6.2	16	6.8
65	2½	150	6	110	97.2	58.2	27.1	±15	10.0	9.3	16	7.7
80	3	150	6	108	113.7	79.5	23.6	±15	9.9	7.9	16	8.7
100	4	150	6	108	139.7	125.9	29.2	±15	8.6	10.0	16	11.2
125	5	150	6	108	165.7	182.9	34.9	±15	6.9	10.0	16	15.0
150	6	150	6	105	196.7	255.4	41.1	±15	5.8	10.0	16	19.0
200	8	200	8	150	247.7	420.6	43.8	±15	8.8	8.2	16	27.4
250	10	200	8	140	305.7	643.4	82.8	±15	6.0	10.0	16	39.8
300	12	200	8	140	355.5	886.7	95.9	±15	5.0	10.0	16	52.5

#上表所示操作压力以常温25℃为基准，其最小爆破压力为4倍之操作压力值。

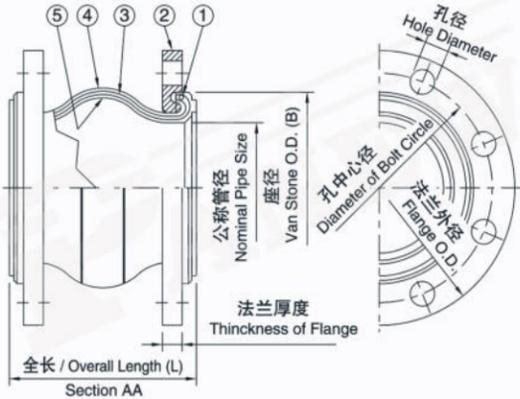
The working pressure tabulated above is the based on the room temperature ( about 25℃ ) and minimum burst pressure is 4 times the working pressure.

#上表所示口径/操作压力/总长/作动量均为标准规格，本公司亦可依客户实际需求定制。

The size,working pressure,total length,and movement tabulated above is the standard specification.We can also deliver products against your requests.

## P-2800 单球型橡胶软接

### SINGLE SPHERE RUBBER CONNECTOR



#### ● 结构组合/Construction

项次 Item	配件名称 Parts	标准材质 Std.Material	选用材质 Option Material
1.	钢圈 (Steel Ring)	SUS-304	-
2.	法兰 (Flange)	SS-400	SUS-304/SUS-316
3.	加强层 (Reinforcing Layer)	Nylon	-
4.	管外层 (External Cover)	EPDM	*
5.	管内层 (Internal Tube)	EPDM	*
6.*	三角耳 (LUG)	SS-400	SUS-304
7.*	控制螺杆 (Control Rod)	S-15C	SUS-304

\* NR/ CR/ NBR/ SBR...etc.

④ 法兰标准规格 ( Flange Standard ) : JIS,GB.其余规格亦可依实际需求选用,如ANSI,DIN,BS...等。

Other standard flanges are available, like ANSI,DIN,BS...etc.

④ 本产品依FSA规范设计生产,产品寿命于最大作动量于最大使用时,达5000次以上。

Our products are designed and manufactured according to FSA.The max.cycles life of the products exceed 5000 cycles in the condition of max. movement and max temperature.

#### ● P-2800 性能规格表/Specification

#通用温度范围/Temperature Range:5°C-115°C

#下表所示压力以80°C为基准/The pressure rating tabulated below is based on 80°C.

公称管径 N.D.		产品全长 Overall Length(L)		伸缩球规格 ( Sphere Specification )			变位置 ( Movement )				操作压力	单品重量
mm	inch	mm	inch	孔径 Van Stone O.D.	有效面积 Eff.Area	弹性系数 Spring Rate	轴向伸张 Axial Ext	轴向压缩 Axial Com	侧向 Lateral	角度 Angular	Working pressure	Weight/pc
25	1	95	3.7	60	18.9	3.0	4	8	8	15	16.0	2.7
32	1¼	95	3.7	68	25.8	3.8	4	8	8	15	16.0	3.3
40	1½	95	3.7	75	31.5	4.5	4	8	8	15	16.0	3.5
50	2	105	4.1	85	43.3	6.0	5	8	8	15	16.0	4.2
65	2½	115	4.5	105	66.7	7.5	6	12	10	15	16.0	5.8
80	3	135	5.3	119	87.5	9.0	6	12	10	15	16.0	6.0
100	4	150	5.9	149	139.2	12.0	10	18	12	15	16.0	7.3
125	5	165	6.5	179	203.3	14.9	10	18	12	15	16.0	11.0
150	6	180	7.1	211	283.8	17.9	10	18	12	10	16.0	14.4
200	8	190	7.5	259	451.1	19.9	14	25	22	10	16.0	17.4
250	10	230	9.1	322	689.1	25.0	14	25	22	10	16.0	26.7
300	12	245	9.7	370	944.3	29.9	14	25	22	10	16.0	29.0
350	14	265	10.4	413	1172.0	26.1	16	25	22	8	8.1	38.0
400	16	265	10.4	464	1498.5	29.9	16	25	22	8	8.1	59.7
450	18	265	10.4	524	1905.8	33.7	16	25	22	8	8.1	64.4
500	20	265	10.4	572	2324.3	37.4	16	25	22	5	8.1	73.2
550	22	265	10.4	640	2774.9	41.2	16	25	22	5	8.1	93.1
600	24	265	10.4	690	3265.4	44.9	16	25	22	5	8.1	104.6

#橡胶球体最大负压66cm.Hg.当球体承受负压时,不允许拉伸且外部无负载。

Max.Negative Pressure is 66cm.Hg.Products should not be installed "extended" on vacuum application.

#上表所示长度、口径、耐压压力均为标准品,公司亦可依客户实际需求定制。

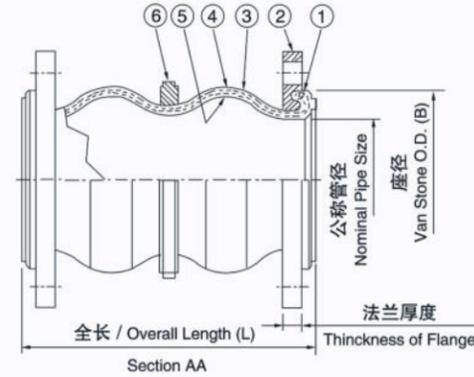
The overall length,size and max.pressure resistance tabulated above are the standard,We can also deliver any length against your request.

#最小爆破压力:3倍最大工作压力(如上表)。

Min.burst Pressure: 3 times the Max.Pw tabulated above.

## P-2860 双球型橡胶软接

### TWIN SPHERE RUBBER CONNECTOR



#### ● 结构组合/Construction

项次 Item	配件名称 Parts	标准材质 Std.Material	选用材质 Option Material
1.	钢圈 (Steel Ring)	SUS-304	-
2.	法兰 (Flange)	SS-400	SUS-304/SUS-316
3.	加强层 (Reinforcing Layer)	Nylon	-
4.	管外层 (External Cover)	EPDM	*
5.	管内层 (Internal Tube)	EPDM	*
6.	加强环 (Reinforcing Ring)	SS-400	SUS-304
7.*	三角耳 (Lug)	SS-400	SUS-304
8.*	控制螺杆 (Control Rod)	S-15C	SUS-304

\* NR/ CR/ NBR/ SBR...etc.

④ 法兰标准规格 ( Flange Standard ) : JIS,GB.其余规格亦可依实际需求选用,如ANSI,DIN,BS...等。

Other standard flanges are available,like ANSI,DIN,BS...etc.

④ 本产品依FSA规范设计生产,产品寿命于最大作动量于最大使用时,达5000次以上。

Our products are designed and manufactured according to FSA.The max.cycles life of the products exceed 5000 cycles in the condition of max. movement and max temperature.

#### ● P-2860 性能规格表/Specification

#通用温度范围/Temperature Range:5°C-115°C

#下表所示压力以80°C为基准/The pressure rating tabulated below is based on 80°C.

公称管径 N.D.		产品全长 Overall Length(L)		伸缩球规格 ( Sphere Specification )			变位置 ( Movement )				操作压力	单品重量
mm	inch	mm	inch	孔径 Van Stone O.D.	有效面积 Eff.Area	弹性系数 Spring Rate	轴向伸张 Axial Ext	轴向压缩 Axial Com	侧向 Lateral	角度 Angular	Working pressure	Weight/pc
25	1	120	4.7	60	18.9	2.1	27	53	45	40	16.0	2.95
32	1¼	175	6.9	68	25.8	2.6	27	53	45	40	16.0	3.6
40	1½	175	6.9	75	31.5	3.2	27	53	45	40	16.0	3.8
50	2	175	6.9	85	43.3	4.2	27	53	45	40	16.0	4.5
65	2½	175	6.9	105	66.7	5.3	27	53	45	40	16.0	6.2
80	3	175	6.9	119	87.5	6.3	27	53	45	40	16.0	6.5
100	4	225	8.9	149	139.2	8.4	31	53	40	35	16.0	8.0
125	5	225	8.9	179	203.3	10.5	31	53	40	35	16.0	11.8
150	6	225	8.9	211	283.8	12.6	31	53	40	35	16.0	15.4
200	8	325	12.8	259	451.1	13.9	30	65	40	30	16.0	18.7
250	10	325	12.8	322	689.1	17.5	30	65	35	30	16.0	28.4
300	12	325	12.8	370	944.3	20.9	30	65	35	30	16.0	31.0
350	14	350	13.8	413	1172.0	18.3	30	43	35	20	16.0	40.3
400	16	350	13.8	464	1498.5	20.9	30	43	30	20	10.0	62.4
450	18	350	13.8	524	1905.8	23.6	30	43	30	20	8.8	67.4
500	20	350	13.8	572	2324.3	26.2	30	43	30	20	8.8	76.5
550	22	350	13.8	630	2774.9	28.8	30	43	30	20	8.8	96.8
600	24	350	13.8	680	3265.4	31.4	30	43	30	20	7.7	108.6

#橡胶球体最大负压66cm.Hg.当球体承受负压时,不允许拉伸且外部无负载。

Max.Negative Pressure is 66cm.Hg.Products should not be installed "extended" on vacuum application.

#上表所示长度、口径、耐压压力均为标准品,公司亦可依客户实际需求定制。

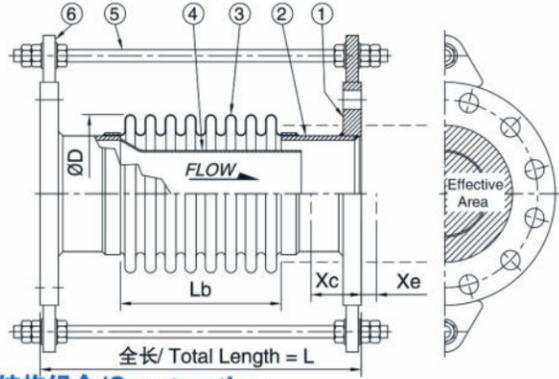
The overall length,size and max.pressure resistance tabulated above are the standard,We can also deliver any length against your request.

#最小爆破压力:3倍最大工作压力(如上表)。

Min.burst Pressure: 3 times the Max.Pw tabulated above.

## P-3000/P-3200 轴向式伸缩接头

### AXIAL TYPE EXPANSION JOINT



#### ●结构组合/Construction

项次 Item	配件名称 Parts	标准材质 Std.Material	选用材质 Option Material
1.	法兰 (Flange)	SS-400	SUS-304/SUS-316
2.	端管 (End Pipe)	SGP/SS-400	SUS-304/SUS-316
3.	波纹管 (Bellows)	SUS-304	SUS-316

#### ●P-3000 性能规格表/Specification

公称管径 N.D.	产品总长 Total Length(L)	波纹管规格 (Bellows Specification)				轴向变位 (Axial Movement)		操作压力 Working pressure	单品重量 Weight/pc (GB-PN10)		
		有效长度 Eff.Length	外径 O.D.	有效面积 Eff.Area	弹性系数 Spring Rate	伸张量 Extension	压缩量 Compression				
mm	inch	mm	inch	Lb(mm)	mm	cm <sup>2</sup>	kg/mm	ΔXe(mm)	ΔXc(mm)	kg/cm <sup>2</sup>	kg/pc
32	1 1/4	250	10	96	65.7	25.8	10.8	5	30	10	5.0
40	1 1/2	250	10	96	65.7	25.8	10.8	5	30	10	5.8
50	2	300	12	120	81.2	39.3	13.3	5	35	10	7.9
65	2 1/2	300	12	120	97.2	59.0	16.4	5	35	10	9.2
80	3	300	12	120	113.7	80.4	13.8	10	40	10	10.3
100	4	300	12	132	139.7	127.1	15.7	10	40	10	12.4
125	5	300	12	144	165.7	184.3	17.2	10	45	10	15.2
150	6	350	14	165	196.7	257.6	19.8	10	50	10	21.7
200	8	350	14	180	247.7	423.1	23.1	10	50	10	29.8
250	10	400	16	200	305.7	646.5	45.5	10	55	10	40.0
300	12	400	16	200	355.5	890.4	53.5	10	55	10	49.4
350	14	400	16	200	399.0	1123.4	45.3	10	60	10	66.9
400	16	400	16	200	458.7	1470.5	64.7	10	60	10	85.6
450	18	400	16	210	500.0	1727.6	47.4	10	70	10	97.4
500	20	400	16	210	551.0	2123.7	52.2	10	70	10	119.4
600	24	400	16	210	653.0	3036.6	106.7	10	65	10	152.7

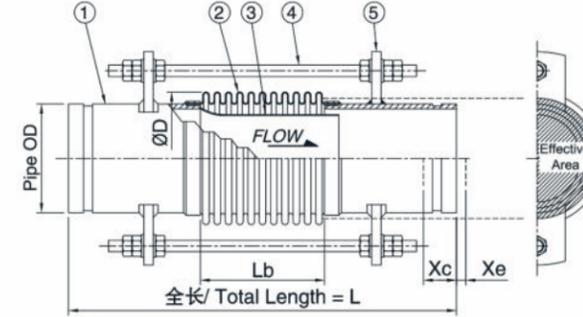
#### ●P-3200 性能规格表/Specification

公称管径 N.D.	产品总长 Total Length(L)	波纹管规格 (Bellows Specification)				轴向变位 (Axial Movement)		操作压力 Working pressure	单品重量 Weight/pc (PN16)		
		有效长度 Eff.Length	外径 O.D.	有效面积 Eff.Area	弹性系数 Spring Rate	伸张量 Extension	压缩量 Compression				
mm	inch	mm	inch	mm	mm	cm <sup>2</sup>	kg/mm	ΔXe(mm)	ΔXc(mm)	kg/cm <sup>2</sup>	kg/pc(PN16)
32	1 1/4	250	10	96	65.7	25.4	15.6	5	30	16	5.2
40	1 1/2	250	10	96	65.7	25.4	15.6	5	30	16	5.9
50	2	300	12	120	81.4	38.6	20.4	5	35	16	8.2
65	2 1/2	300	12	120	97.2	58.2	24.9	5	35	16	9.5
80	3	300	12	120	113.7	79.5	21.2	10	40	16	10.7
100	4	300	12	132	139.7	125.9	23.9	10	40	16	13.0
125	5	300	12	144	165.7	182.9	26.2	10	45	16	16.0
150	6	350	14	165	196.7	255.4	26.1	10	50	16	22.9
200	8	350	14	180	247.7	420.6	36.5	10	50	16	32.5
250	10	400	16	200	305.7	643.4	57.9	10	55	16	46.8
300	12	400	16	200	355.5	886.7	67.2	10	55	16	63.9
350	14	400	16	200	399.0	1119.3	56.8	10	60	16	84.6
400	16	400	16	200	458.7	1464.0	79.3	10	60	16	109.6
450	18	400	16	210	500.0	1718.9	72.5	10	70	16	128.2
500	20	400	16	210	551.0	2115.6	104.0	10	70	16	172.6
600	24	400	16	210	653.0	3028.8	124.5	10	65	16	251.7



## P-3090/P-3290 沟槽式伸缩接头

### AXIAL TYPE EXPANSION JOINT WITH ENDS



#### ●结构组合/Construction

项次 Item	配件名称 Parts	标准材质 Std.Material	选用材质 Option Material
1.	沟槽管(Grooved Pipe)	SS-400	SUS-304/SUS-316
2.	波纹管(Bellows)	SUS-304	SUS-316
3.	内套管(Sleeve)	SUS-304	SUS-316
4.	运输螺栓(Shipping Rod)	S-15C	SUS-304
5.	焊耳(Lug)	SS-400	SUS-304

# 沟槽管可通过车削或轧制而成，依客户需求或使用压力而定。  
Grooved pipes can be turned or rolled, depending on customer requirements.

# 沟槽管外径依下表制作，若需其它外径尺寸请与本公司洽商。  
The outside diameter of grooved pipe is made according to the table below. If you need other outside diameter size, please contact us.

# 本产依EJMA规范设计生产，寿命于最大作动量时达1000次以上。  
According to EJMA design, the fatigue life of this product is more than 1000 times.

#### ●P-3090 性能规格表/Specification

公称管径 N.D.	产品总长 Total Length(L)	沟槽管外径 Pipe O.D.	波纹管规格 (Bellows Specification)				轴向变位 (Axial Movement)		操作压力 Working pressure	单品重量 Weight/pc		
			有效长度 Eff.Length	外径 O.D.	有效面积 Eff.Area	弹性系数 Spring Rate	伸张量 Extension	压缩量 Compression				
mm	inch	mm	mm	mm	cm <sup>2</sup>	kg/mm	ΔXe(mm)	ΔXc(mm)	kg/cm <sup>2</sup>	kg/pc		
25	1	400	16	33.4	96	65.7	25.8	10.8	5	30	10	4.4
32	1 1/4	400	16	42.2	96	65.7	25.8	10.8	5	30	10	4.5
40	1 1/2	400	16	48.3	96	65.7	25.8	10.8	5	30	10	4.4
50	2	450	18	60.3	120	81.2	39.3	13.3	5	35	10	5.7
65	2 1/2	450	18	76.1	120	97.2	59.0	16.4	5	35	10	7.5
80	3	450	18	88.9	120	113.7	80.4	13.8	10	40	10	8.2
100	4	450	18	114.3	132	139.7	127.1	15.7	10	40	10	7.5
125	5	450	18	141.3	144	165.7	184.3	17.2	10	45	10	8.8
150	6	500	20	168.3	165	196.7	257.6	19.8	10	50	10	12.7
200	8	500	20	219.1	180	247.7	423.1	23.1	10	50	10	19.0
250	10	550	22	273.0	220	305.7	646.5	45.5	10	55	10	25.4
300	12	550	22	323.9	220	355.5	890.4	53.5	10	55	10	32.9
350	14	550	22	355.6	200	399.0	1123.4	45.3	10	60	10	37.0
400	16	600	24	406.4	200	458.7	1470.5	64.7	10	60	10	53.0

#### ●P-3290 性能规格表/Specification

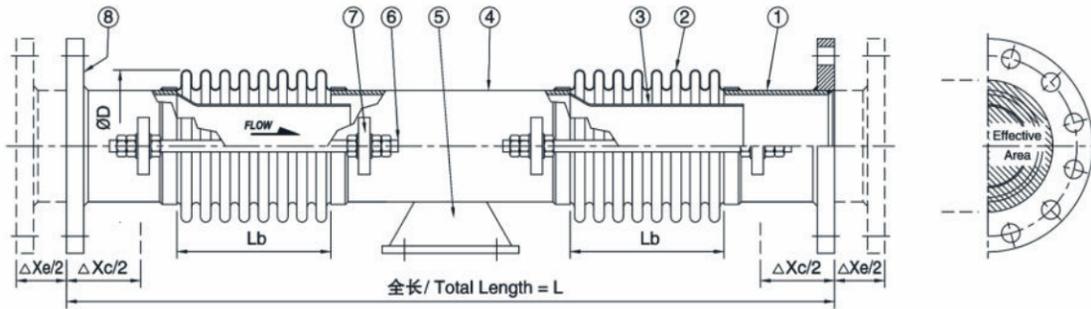
公称管径 N.D.	产品总长 Total Length(L)	沟槽管外径 Pipe O.D.	波纹管规格 (Bellows Specification)				轴向变位 (Axial Movement)		操作压力 Working pressure	单品重量 Weight/pc		
			有效长度 Eff.Length	外径 O.D.	有效面积 Eff.Area	弹性系数 Spring Rate	伸张量 Extension	压缩量 Compression				
mm	inch	mm	mm	mm	cm <sup>2</sup>	kg/mm	ΔXe(mm)	ΔXc(mm)	kg/cm <sup>2</sup>	kg/pc		
25	1	400	16	33.4	96	65.7	25.4	15.6	5	30	16	4.6
32	1 1/4	400	16	42.2	96	65.7	25.4	15.6	5	30	16	4.6
40	1 1/2	400	16	48.3	96	65.7	25.4	15.6	5	30	16	4.5
50	2	450	18	60.3	120	81.2	38.6	20.4	5	35	16	6.0
65	2 1/2	450	18	76.1	120	97.2	58.2	24.9	5	35	16	7.9
80	3	450	18	88.9	120	113.7	79.5	21.2	10	40	16	8.6
100	4	450	18	114.3	132	139.7	125.9	23.9	10	40	16	8.1
125	5	450	18	141.3	144	165.7	182.9	26.2	10	45	16	9.6
150	6	500	20	168.3	165	196.7	255.4	26.1	10	50	16	13.9
200	8	500	20	219.1	180	247.7	420.6	36.5	10	50	16	20.7
250	10	550	22	273.0	220	305.7	643.4	57.9	10	55	16	28.3
300	12	550	22	323.9	220	355.5	886.1	67.2	10	55	16	36.2
350	14	550	22	355.6	200	399.0	1119.3	56.8	10	60	16	41.1
400	16	600	24	406.4	200	458.7	1464.0	79.3	10	60	16	58.9

# 上表所示口径 / 操作压力 / 总长 / 作动量均为标准规格，本公司亦可依客户实际需求订制。  
The size, working pressure, total length, and movement tabulated above is the standard products. We can also deliver products against your requests.

# 上表所示的操作压力、弹性系数均以常温25℃为基准计算，若需要其它温度下的这些数值，请联系本公司。  
The working pressure tabulated above is based on 25°C. If you need these values at other temperatures, please contact us.

## P-3600/P-3620 复式轴向伸缩接头

### DUAL TYPE AXIAL EXPANSION JOINT



#### ●主结构件/Main.Construction

项次 Item	配件名称 Parts	标准材质 Std.Material	选用材质 Option Material
1.	端管 (End Pipe)	SGP/SS-400	SUS-304/316
2.	波纹管 (Bellows)	SUS-304	SUS-316
3.	内套管 (Sleeve)	SUS-304	SUS-316
4.	中间管 (Mid.Pipe)	SGP/SS-400	SUS-304/316
5.	管座 (Anchor Base)	SS-400	SUS-304

#亦可提供其他特殊材质/Other Special materials are available.

项次 Item	配件名称 Parts	标准材质 Std.Material	选用材质 Option Material
6.	运输螺杆 (Shipping Rod)	S-15C	SUS-304
7.	焊耳 (Lug)	SS-400	SUS-304
8.	法兰 (Flange)	SS-400	SUS-304/316

#本产品依EJMA规范设计生产, 产品于最大作动量时, 其寿命达1000次以上。  
Our products are designed and manufactured according to EJMA. The Max. life cycles of our products exceed 1000 cycles.

#### ●P-3600 性能规格表/Specification

公称管径 N.D.		产品总长 Total Length(L)		波纹管规格 (Bellows Specification)				轴向变位 (Axial Movement)		操作压力	单品重量
mm	inch	mm	inch	有效长度 Eff.Length	外径 O.D.	有效面积 Eff.Area	弹性系数 Spring Rate	伸张量 Extension	压缩量 Compression	Working pressure	Weight/pc (GB-PN10)
50	2	600	24	120	81.2	39.3	13.3	10	70	10	9.3
65	2½	600	24	120	97.2	59.0	16.4	10	70	10	11.6
80	3	650	26	120	113.7	80.4	13.8	20	80	10	13.9
100	4	650	26	132	139.7	127.1	15.7	20	80	10	17.6
125	5	750	30	144	165.7	184.3	17.2	20	90	10	21.6
150	6	850	34	165	196.7	257.6	19.8	20	100	10	40.3
200	8	850	34	180	247.7	423.1	23.1	20	100	10	48.0
250	10	1000	40	200	305.7	646.5	45.5	20	110	10	71.6
300	12	1000	40	200	355.5	890.4	53.5	20	110	10	86.7
350	14	1000	40	200	399.0	1123.4	45.3	20	120	10	118.6
400	16	1000	40	200	458.7	1470.5	64.7	20	120	10	147.5

#### ●P-3620 性能规格表/Specification

公称管径 N.D.		产品总长 Total Length(L)		波纹管规格 (Bellows Specification)				轴向变位 (Axial Movement)		操作压力	单品重量
mm	inch	mm	inch	有效长度 Eff.Length	外径 O.D.	有效面积 Eff.Area	弹性系数 Spring Rate	伸张量 Extension	压缩量 Compression	Working pressure	Weight/pc (GB-PN16)
50	2	600	24	120	81.2	38.6	20.4	10	70	20	9.2
65	2½	600	24	120	97.2	58.2	24.9	10	70	20	13.2
80	3	650	26	120	113.7	79.5	21.2	20	80	20	16.2
100	4	650	26	132	139.7	125.9	23.9	20	80	20	20.9
125	5	750	30	144	165.7	182.9	26.2	20	90	20	29.8
150	6	850	34	165	196.7	255.4	26.1	20	100	20	42.6
200	8	850	34	180	247.7	420.6	36.5	20	100	20	60.9
250	10	1000	40	200	305.7	643.4	57.9	20	110	20	95.8
300	12	1000	40	200	355.5	886.7	67.2	20	110	16	124.2
350	14	1000	40	200	399.0	1119.3	56.8	20	120	16	161.5
400	16	1000	40	200	458.7	1464.0	79.3	20	120	16	206.4

#上表所示口径/操作压力/总长/作动量均为标准规格, 本公司亦可依客户实际需求定制。

The size, working pressure, total length, and movement tabulated above is the standard specification. We can also deliver products against your requests.

#上表所示操作压力以温度100℃为基准, 其最大使用压力为1.5倍之操作压力值。

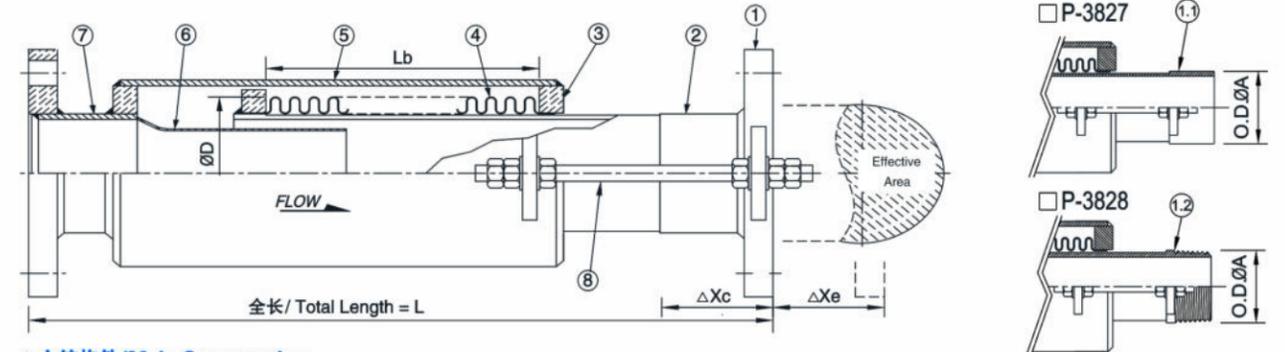
The working pressure tabulated above is based on 100℃. The maximum operating pressure is 1.5 times the working pressure tabulated above.

#上表所示产品重量, 均以GB-PN10/PN16为准, 如需其它规格重量或相关资料, 请随时与我们联系。

The unit weight of the products tabulated above are based on GB-PN10/PN16 Flange. If you need more information, please feel free to contact us any time.

## P-3800/P-3820 大位移轴向伸缩接头

### LARGE MOVEMENT AXIAL EXPANSION JOINT



#### ●主结构件/Main.Construction

项次 Item	配件名称 Parts	标准材质 Std.Material	选用材质 Option Material
1.	法兰 (Flange)	SS-400	SUS-304/316
2.	滑套管 (Sleeve Pipe)	SGP/SS-400	SUS-304/316
3.	侧封板 (Ring Plate)	SS-400	SUS-304/316
4.	波纹管 (Bellows)	SUS-304	SUS-316
5.	外套管 (Cover Pipe)	SGP/SS-400	SUS-304/316

项次 Item	配件名称 Parts	标准材质 Std.Material	选用材质 Option Material
6.	内套管 (Sleeve)	SUS-304	SUS-316
7.	端管 (End Pipe)	SGP/SS-400	SUS-304/316
8.	运输螺杆 (Shipping Rod)	S15C/SS-400	SUS-304
1.1	端管 (End Pipe)	SGP/SS-400	SUS-304/316
1.2	牙管 (Round Nipple)	SGP/SS-400	SUS-304/316

#### ●P-3800/3820(法兰型) 性能规格表/Specification

公称管径 N.D.		产品总长 Total Length(L)		波纹管规格 (Bellows Specification)				轴向变位 (Axial Movement)		操作压力	单品重量
mm	inch	mm	inch	有效长度 Eff.Length	外径 O.D.	有效面积 Eff.Area	弹性系数 Spring Rate	伸张量 Extension	压缩量 Compression	Working pressure	Weight/pc (GB-PN10/PN16)
80	3	700	28	312	113.7	80.4/79.5	5.1/10.1	80	80	10/20	22.9/25.6
100	4	700	28	312	139.7	127.1/125.9	6.3/12.6	80	80	10/20	29.3/34.2
125	5	700	28	312	165.7	184.3/182.9	7.6/15.1	80	80	10/20	36.8/51.5
150	6	900	36	375	196.7	257.6/255.4	8.3/16.6	100	100	10/20	58.7/69.2
200	8	900	36	405	247.7	423.1/420.6	9.8/19.6	100	100	10/20	87.6/105.1
250	10	900	36	420	305.7	646.5/643.4	15.7/23.8	100	100	10/20	142.1/154.0
300	12	900	36	420	355.5	890.4/886.7	18.4/28.0	100	100	10/20	168.4/185.2

#### ●P-3827(端管型) 性能规格表/Specification

公称管径 N.D.		端管外径 O.D.	产品总长 Total Length(L)		波纹管规格 (Bellows Specification)				轴向变位 (Axial Movement)		操作压力	单品重量
mm	mm	mm	inch	有效长度 Eff.Length	外径 O.D.	有效面积 Eff.Area	弹性系数 Spring Rate	伸张量 Extension	压缩量 Compression	Working pressure	Weight/pc	
25	34	500	20	216	41.8	10.8	1.5	45	45	20	5.2	
32	42	500	20	200	55.5	18.1	2.5	45	45	20	5.4	
40	48	500	20	192	65.7	25.4	6.9	45	45	20	6.8	
50	60	500	20	200	81.2	38.7	10.2	45	45	20	9.4	
65	76	500	20	200	97.2	58.4	12.6	45	45	20	10.3	

#### ●P-3828(牙管型) 性能规格表/Specification

公称管径 N.D.		牙管外径 O.D.	产品总长 Total Length(L)		波纹管规格 (Bellows Specification)				轴向变位 (Axial Movement)		操作压力	单品重量
mm	mm	mm	inch	有效长度 Eff.Length	外径 O.D.	有效面积 Eff.Area	弹性系数 Spring Rate	伸张量 Extension	压缩量 Compression	Working pressure	Weight/pc	
20	28	500	20	216	41.8	10.8	1.5	45	45	20	4.9	
25	34	500	20	216	41.8	10.8	1.5	45	45	20	5.4	
32	42	500	20	200	55.5	18.1	2.5	45	45	20	5.6	
40	48	500	20	192	65.7	25.4	6.9	45	45	20	7.2	
50	60	500	20	200	81.2	38.7	10.2	45	45	20	9.9	

#上表所示口径/操作压力/总长/作动量均为标准规格, 本公司亦可依客户实际需求定制。

The size, working pressure, total length, and movement tabulated above is the standard specification. We can also deliver products against your requests.

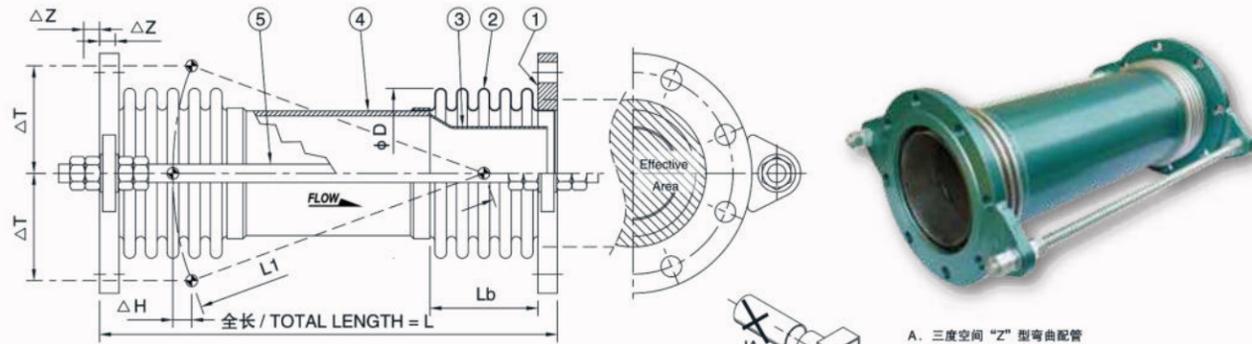
#上表所示操作压力以温度100℃为基准, 其最大使用压力为1.5倍之操作压力值。

The working pressure tabulated above is based on 100℃. The maximum operating pressure is 1.5 times the working pressure tabulated above.

#上表所示产品重量, 均以GB-PN10/PN16为准, 如需其它规格重量或相关资料, 请随时与我们联系。

The unit weight of the products tabulated above are based on GB-PN10/PN16 Flange. If you need more information, please feel free to contact us any time.

## P-5000/P-5200侧向式伸缩接头 UNIVERSAL TYPE EXPANSION JOINT



### ●结构组合/Construction

项次 Item	配件名称 Parts	标准材质 Std.Material	选用材质 Option Material
1.	法兰 (Flange)	SS-400	SUS-304/316
2.	波纹管 (Bellows)	SUS-304	SUS-316
3.	内套管 (Sleeve)	SUS-304	SUS-316
4.	中间管 (Mid.Pipe)	SGP/SS-400	SUS-304/316
5.	设限螺杆 (Tie Rod)	S-15C	SUS-304

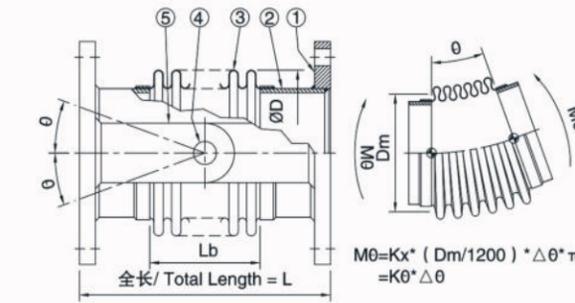
### ●P-5000 性能规格表/Specification

公称管径 N.D.		产品总长 Total Length(L)		波纹管规格 (Bellows Specification)				容许变位 (Deflection)		操作压力 Working pressure	单品重量 Weight/pc (GB-PN10)
mm	inch	mm	inch	有效长度 Eff.Length	外径 O.D.	有效面积 Eff.Area	弹性系数 Spring Rate	轴向 Axial	侧向 Lateral	kg/cm <sup>2</sup>	kg/pc
40	1½	500	20	32	65.7	25.8	0.1	±5	±50	10	7.2
50	2	500	20	40	81.2	39.3	0.3	±5	±50	10	9.5
65	2½	500	20	40	97.2	59.0	0.5	±5	±50	10	11.1
80	3	500	20	48	113.7	80.4	0.5	±5	±50	10	12.5
100	4	500	20	48	139.7	127.1	1.0	±5	±50	10	15.3
125	5	600	24	60	165.7	184.3	1.0	±5	±50	10	23.0
150	6	600	24	75	196.7	257.6	1.6	±5	±50	10	29.8
200	8	700	28	75	247.7	423.1	2.2	±5	±50	10	44.2
250	10	700	28	100	305.7	646.5	6.2	±5	±50	10	58.1
300	12	1100	44	100	255.5	890.4	9.6	±5	±50	10	107.8
350	14	1200	48	100	399.0	1123.4	8.1	±5	±50	10	143.1
400	16	1200	48	125	458.7	1470.5	11.9	±5	±50	10	182.5
450	18	1300	52	120	500.0	1727.6	8.3	±5	±50	10	238.0
500	20	1300	52	120	551.0	2123.7	12.5	±5	±50	10	279.3
600	24	1400	56	120	653.0	3036.6	31.0	±5	±50	10	392.5

### ●P-5200 性能规格表/Specification

公称管径 N.D.		产品总长 Total Length(L)		波纹管规格 (Bellows Specification)				容许变位 (Deflection)		操作压力 Working pressure	单品重量 Weight/pc (GB-PN16)
mm	inch	mm	inch	有效长度 Eff.Length	外径 O.D.	有效面积 Eff.Area	弹性系数 Spring Rate	轴向 Axial	侧向 Lateral	kg/cm <sup>2</sup>	kg/pc
40	1½	500	20	32	65.7	25.4	0.2	±5	±50	16	7.4
50	2	500	20	40	81.2	38.6	0.4	±5	±50	16	9.8
65	2½	500	20	40	97.2	58.2	0.8	±5	±50	16	11.4
80	3	500	20	48	113.7	79.5	0.8	±5	±50	16	13.1
100	4	500	20	48	139.7	125.9	1.6	±5	±50	16	16.4
125	5	600	24	60	165.7	182.9	1.5	±5	±50	16	23.8
150	6	600	24	75	196.7	255.4	2.0	±5	±50	16	35.2
200	8	700	28	75	247.7	420.6	3.6	±5	±50	16	50.7
250	10	700	28	100	305.7	643.4	8.0	±5	±50	16	71.2
300	12	1100	44	100	255.5	886.7	12.0	±5	±50	16	149.3
350	14	1200	48	100	399.0	1119.3	9.2	±5	±50	16	191.8
400	16	1200	48	125	458.7	1464.0	17.0	±5	±50	16	231.9
450	18	1300	52	120	500.0	1718.9	16.8	±5	±50	16	280.5
500	20	1300	52	120	551.0	2115.6	33.6	±5	±50	16	352.0
600	24	1400	56	120	653.0	3028.8	50.7	±5	±50	16	527.3

## P-5600/P-5850 铰链式/万向大位移伸缩接头 HINGED TYPE / UNIVERSAL LARGE MOVEMENT TYPE FOR EARTHQUAKE



### ●结构组合/Construction

项次 Item	配件名称 Parts	标准材质 Std.Material	选用材质 Option Material
1.	法兰 (Flange)	SS-400	SUS-304/316
2.	端管 (End Pipe)	SGP/SS-400	SUS-304/316
3.	波纹管 (Bellows)	SUS-304	SUS-316
4.	铰链销 (Hinged Pin)	SS-400	SUS-304
5.	铰链臂 (Hinged Arm)	SS-400	SUS-304

### ●P-5600 性能规格表/Specification

公称管径 N.D.		产品总长 Total Length(L)		波纹管规格 (Bellows Specification)				角度变位 Angular Rotation	操作压力 Working pressure	单品重量 Weight/pc (GB-PN10)
mm	inch	mm	inch	有效长度 Eff.Length	外径 O.D.	有效径 Eff.Diameter	弹性系数(Spring Rate) Kx Kθ	Δθ (degree)	kg/cm <sup>2</sup>	kg/pc
40	1½	200	8	56	65.7	57.3	17.7 0.1	20	10.0	6.8
50	2	200	8	70	81.2	70.7	21.8 0.2	20	10.0	8.8
65	2½	250	10	90	97.2	86.7	20.9 0.3	19	10.0	11.2
80	3	250	10	96	113.7	101.2	16.5 0.4	19	10.0	12.3
100	4	250	10	96	139.7	127.2	20.6 0.7	15	10.0	15.2
125	5	250	10	108	165.7	153.2	21.9 1.1	13	10.0	20.1
150	6	250	10	105	196.7	181.1	29.7 2.1	13	10.0	27.0
200	8	300	12	150	247.7	323.1	26.4 3.1	12	10.0	35.3
250	10	350	14	220	305.7	286.9	39.5 7.1	12	10.0	50.5
300	12	350	14	220	255.5	336.7	46.4 11.5	11	10.0	56.7
350	14	350	14	200	399.0	378.2	43.3 13.5	10	10.0	81.3
400	16	400	16	200	458.7	432.7	61.8 25.3	10	10.0	110.4
450	18	400	16	210	500.0	469.0	45.3 21.7	10	10.0	134.2
500	20	400	16	210	551.0	520.0	50.4 29.7	10	10.0	156.9
600	24	400	16	210	653.0	621.8	72.4 61.0	8	10.0	211.0

### ●结构组合/Construction

项次 Item	配件名称 Parts	标准材质 Std.Material	选用材质 Option Material
1.	法兰 (Flange)	SS-400	SUS-304/316
2.	端管 (End Pipe)	SGP/SS-400	SUS-304/316
3.	波纹管 (Bellows 1.)	SUS-304	SUS-316L
4.	设定螺杆 (Setting Rod)	SS-400	SUS-304
5.	外管 (Cover Pipe)	SGP/SS-400	SUS-304/316
6.	波纹管 (Bellows 2.)	SUS-304	SUS-316L
7.	平衡环 (Gimbal Ring)	SS-400	SUS-304
8.	插销 (Pin)	SS-400	SUS-304
9.	悬臂 (Holding Arm)	SS-400	SUS-304

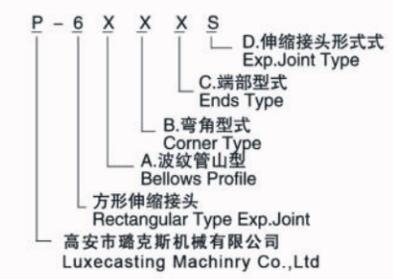
### ●P-5850 性能规格表/Specification

公称管径 N.D.		产品总长 Total Length(L)		波纹管规格 (Bellows Specification)				变位量(movement)		操作压力 working pressure	单品重量 Weight/pc (GB-PN10)
mm	inch	mm	inch	有效长度 Eff.Length	外径 O.D.	有效面积 Eff.Area	弹性系数(Spring Rate) Kaxial Klaternal	轴向 movement	侧向 deflection	kg/cm <sup>2</sup>	kg/pc
50	2	1400	56	1130	81.2	39.3	2.6 0.01	70	400	10	34.3
65	2½	1450	58	1160	97.2	59.0	3.1 0.02	70	400	10	43.6
80	3	1500	60	1160	113.2	80.4	2.6 0.03	100	400	10	47.7
100	4	1500	60	1160	139.7	127.1	3.2 0.12	100	400	10	62.2
125	5	1700	68	1300	165.7	184.3	3.8 0.15	100	400	10	79.1
150	6	1800	72	1400	196.7	257.6	5.2 0.28	100	400	10	112.2
200	8	1850	74	1400	247.7	423.1	6.6 0.35	100	400	10	150.7
250	10	1900	76	1400	305.7	646.5	12.1 0.95	100	400	10	252.7
300	12	2100	84	1600	355.5	890.4	14.2 0.73	100	400	10	289.2

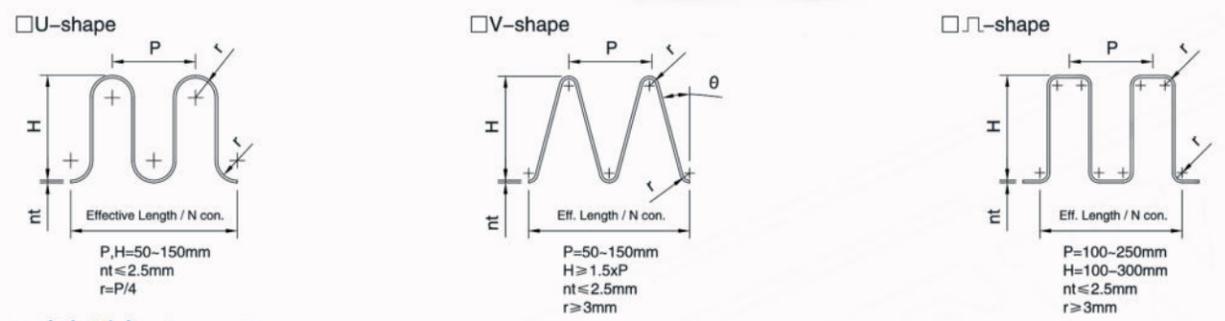
# P-6000 方型伸缩接头

## RECTANGULAR TYPE EXPANSION JOINT

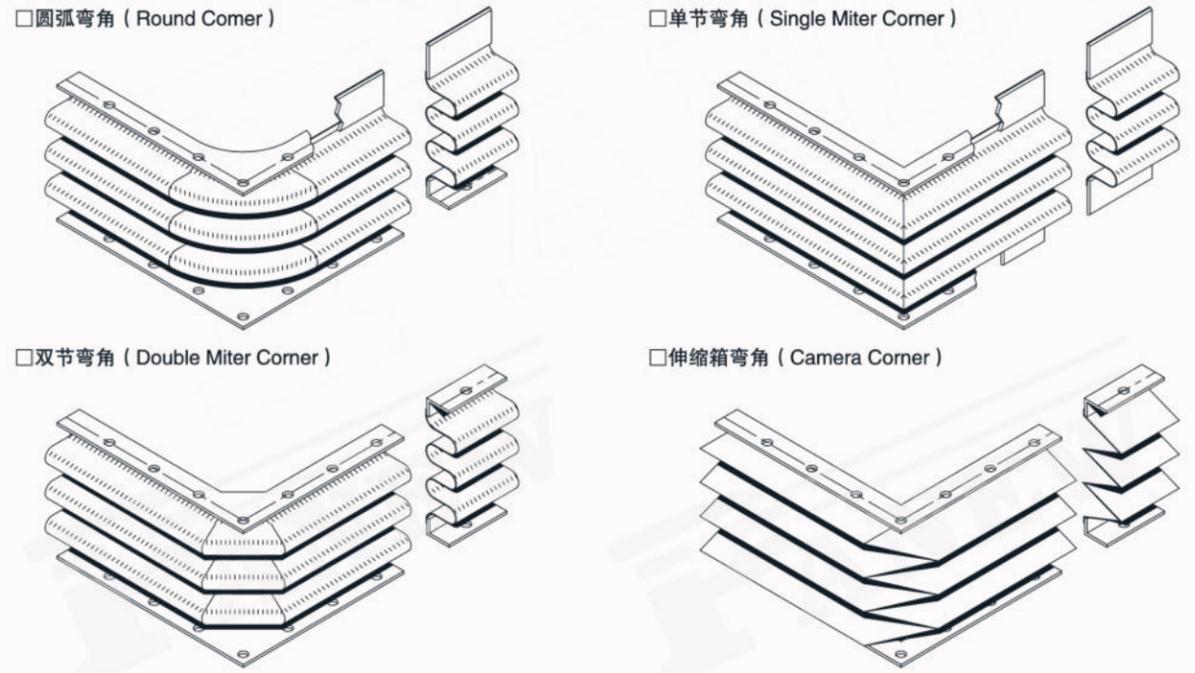
### ●型号说明 (Model No.Instruction)



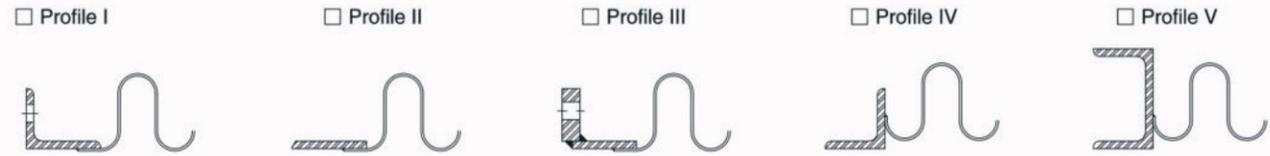
### A. 波纹管山型 Bellows Profile



### B. 弯角型式 Corner Type

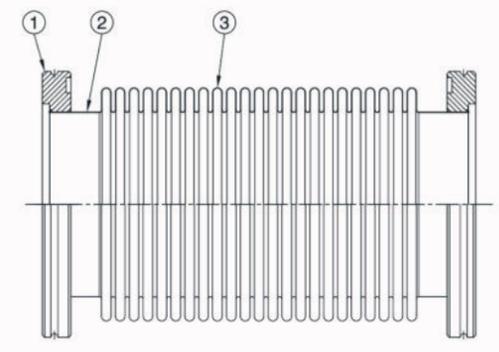


### C. 端部型式 Ends Type



# P-7000 真空及阀门专用精密波纹管

## PRECISE BELLOWS USED FOR VACUUM & VALVES



### ●结构组合/Construction

项次 Item	配件名称 Parts	标准材质 Std. Material	选用材质 Option Material
1.	法兰 ( Flange )	SUS-304	SUS-304/316
2.	端管 ( End Pipe )	SUS-304	SUS-304/316
3.	波纹管 ( Bellows )	SUS-304	SUS-304/316

※ 若产品采用波纹管直边段焊接时，端管将不使用。  
If the product is welded with straight edge of bellows, the end pipe will not be used.  
※ 法兰规格: NW、ISO, 亦可依实际需求选用, 如卡盘接头, KF等。  
Flange Standard: NW、ISO, you can also select other special fitting ends.

### ●成型波纹管规格表/Specification

公称管径 N.D.		波纹管规格 ( Bellows Specification )		
mm	inch	波距 Pitch	外径 O.D.	壁厚 thickness
8	/	1.6	12.0	0.10
10	/	2.2	16.0	0.10
12	/	2.2	18.0	0.10
14	/	2.2	20.0	0.10
16	/	2.3	25.0	0.15
18	/	2.7	28.0	0.15
20	3/4	2.3	29.0	0.15
22	/	3.2	32.0	0.15
25	1	3.5	36.0	0.15
32	1-1/4	3.5	46.0	0.15

公称管径 N.D.		波纹管规格 ( Bellows Specification )		
mm	inch	波距 Pitch	外径 O.D.	壁厚 thickness
38	/	3.5	54.0	0.15
40	1-1/2	4.5	54.0	0.15
50	2	6	67.5	0.15
63	2-1/2	7	86.5	0.20
80	3	5.8	101.0	0.20
100	4	6.3	126.5	0.20
150	6	11.5	175.5	0.25
200	8	13	236.0	0.30
250	10	15	293.0	0.30
300	12	17	346.0	0.40

### ●波纹管介绍/Introduction

产品名称: 成型波纹管/ Forming Bellows  
 产品描述: 精选优质不锈钢原材料鼓波成型/ Wave Forming  
 产品材质: 304/316L/Hastelloy;  
 产品应用: 实行小批量和大批量两种生产体制, 适用于与液晶、半导体、航空航天、光伏、生物制药、科学研究等产业。

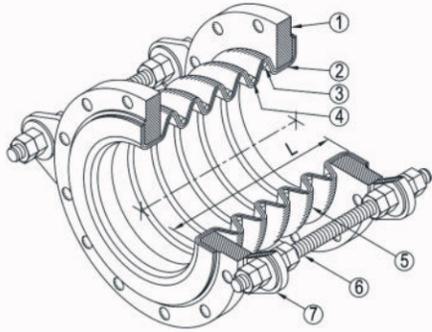
产品名称: 焊接波纹管/ Welding Bellows  
 产品描述: 精选优质原材料自动焊接成型/ Automatic Welding Forming  
 产品材质: AM350/304/316L/Hastelloy;  
 应用领域: 半导体及阀门、LCD设备、超高真空设备、OLED设备、地铁、动车、航空航天、汽车、医疗设备。



# 氦检测仪检漏率/ Helium leak detector:  $5 \times 10^{-13} \text{ Pa m}^3/\text{s}$ ;  
 # 除以上所示波纹管材质, 本公司亦可根据客户要求选用其他材质  
 In addition to the bellows shown above, we can also choose other materials according to customer requirements;  
 # 表中所示为本公司标准波纹管的尺寸, 亦可根据客户要求特殊定制;  
 The dimensions are standard bellows of our company. we can also be manufacture according to customer requirements.

## 各式衬氟产品 SPECIAL LINING PTFE PRODUCTS

### ● 剖面示意图/Section Profile



### ● 结构组合/Construction

项次 Item	配件名称 Parts	标准材质 Std. Material	选用材质 Option Material
1	法兰 (Flange)	SS-400	SUS-304/316
2	波纹管 (Bellows)	PTFE	-
3	内加强环 (Int. ring)	SUS-304	SS-400/SUS-316
4	外加强环 (Ext. ring)	SUS-304	SS-400/SUS-316
5	加强层 (Rein. layer)	SUS-304	RUBBER
6	拉杆 (Rod)	SS-400	SUS-304/316
7	焊耳 (Lug)	SS-400	SUS-304/316

#法兰标准规格 (Flange Standard): JIS, GB.  
其余规格亦可依实际需求选用, 如ANSI, DIN, BS...等。  
Other standard flanges are available, like ANSI, DIN, BS...etc.  
下表所示尺寸/性能均为标准规格, 本公司亦可依客户实际需求定制。  
The specification tabulated below is the standard. Others are available against requests.



P-2900 PTFE软接      P-2800F 内衬PTFE橡胶软接      P-1100F 内衬PTFE金属软接      P-2011 内衬PTFE金属软接      P-1799 内衬PTFE高压软管

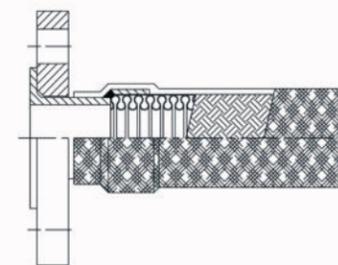
### ● P2900性能规格表/Specification

△X: 轴向变位 (axial com./ext.)    △Y: 侧向变位 (lateral offset)    △θ: 角度变位 (Angular Rotation)

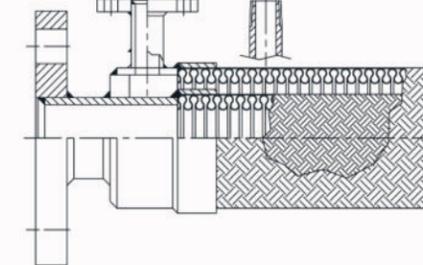
性能规格 Specification	Type	I/II					III					IV					V				
		Size		△X	△Y	△θ	L	△X	△Y	△θ	L	△X	△Y	△θ	L	△X	△Y	△θ	L		
型号说明 Profile/Type	inch	mm	mm	I	II/VI	deg.	mm	mm	deg.	mm	mm	deg.	mm	mm	deg.	mm	mm	deg.	mm		
I	1	25	12	8	10		65						12			70	16		200		
	1 1/4	32	14	12	16		70						14	5		75	21	7	220		
	1 1/2	40	17	14	18		75						17			80	23		240		
	2	50	20	17	22		82						20			90	27		260		
	2 1/2	65	22	20	26	20	88						22	8	15	95	29	10	200		
	3	80	24	24	32		92						24			100	31		270		
	4	100	26	25	33		95	9.2	1.7				26			110	32	14			
	5	125	29				105	9.0	1.5	150			29	2		120	34		300		
	6	150	32			26	115	8.8	1.2				32			130	38	16			
	8	200	40				125	16	2.4	2.5	200		34	14		140	45		400		
II	10	250	42	20		135	15	1.9				36			150	48					
	12	300	44	27		145		2.1				37		10	160	50					
	14	350	46			150		1.9				40			165	53					
	16	400				160	16	1.7	2.0		18				170		20	15	450		
	18	450				180		1.5	1.8	230	42				180	56					
	20	500	48	15		200		1.4	1.6						200						
	22	550				210															
	24	600	49	12	16		220	27	3.3	2.0	340		20		220	22					
	26	650				230															
	28	700				240	48	3.2	3.6	360	46				240	61			600		
III	30	750				250															
	32	800	50			260	47	4.3	3.0	380					260						
	34	850				270															
	36	900				280	46	3.8	2.6	400	48	12	8	280	64	14	10				
	38	950		10	13	10	290														
	40	1000				300															
	42	1050	52			305	44	3.2	2.4	420	49				300				700		
	44	1100				310															

## 其它特殊产品 SPECIAL DESIGN PRODUCTS

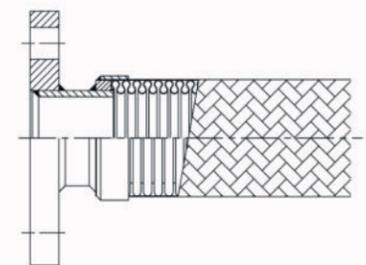
### 1.1 P-1140橡胶包覆软管 (Rubber Covered Hose)



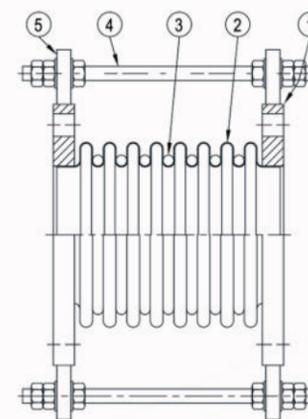
### 1.2 P-1125夹套式软管 (Jacket Type Hose)



### 1.3 P-1300片网编织软管 (Band Braids Hose)



### 2. P-2500耐高压防震接头 (Pump Connector For High Pressure)



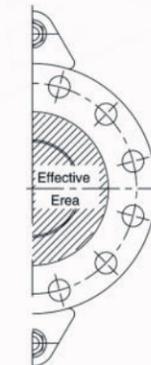
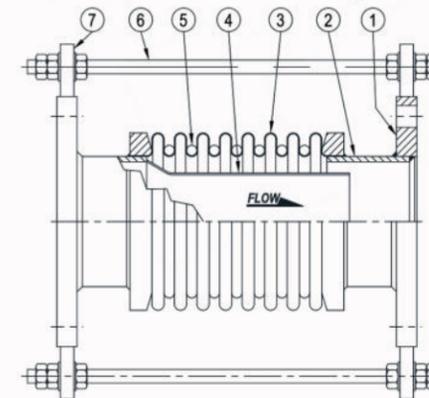
1. 法兰(Flange) 2. 波纹管(Bellows) 3. 加强环(Rein. Ring)  
4. 束缚螺杆(Tie Rod) 5. 焊耳(Lug)

口径: 1-1/2"~36"

耐压: 25-60kg/cm

用途: 通过在波纹管上增设加强环, 提高产品的耐压性。用于泵浦、冷冻空调、发电机排烟道等进出口。

### 3. P-3500耐高压轴向伸缩接头 (Axial Expansion Joint For High Pressure)



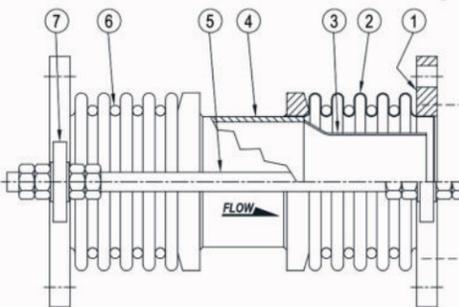
1. 法兰(Flange) 2. 端管(End Pipe) 3. 波纹管(Bellows)  
4. 内套管(Sleeve) 5. 加强环(Rein. Ring) 6. 运输螺杆(Shipping Rod)  
7. 焊耳(Lug)

口径: 1-1/2"~36"

耐压: 25-60kg/cm

用途: 通过在波纹管上增设加强环, 提高产品的耐压性。用于吸收大楼冷热水管路、蒸汽管路、锅炉热煤油管路的热膨胀量。

### 4. P-5500耐高压侧向伸缩接头 (Universal Expansion Joint For High Pressure)



1. 法兰(Flange) 2. 波纹管(Bellows) 3. 内套管(Sleeve)  
4. 中间管(Mid. Pipe) 5. 束缚螺杆(Tie Rod) 6. 加强环(Rein. Ring)  
7. 焊耳(Lug)

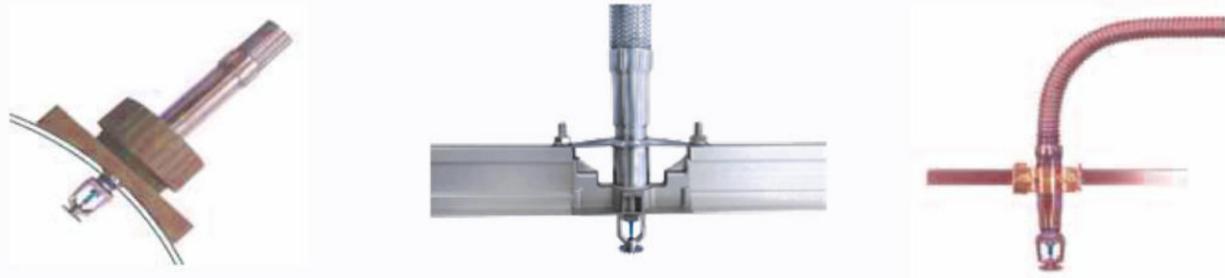
口径: 1-1/2"~36"

耐压: 25-60kg/cm

用途: 通过在波纹管上增设加强环, 提高产品的耐压性。用于吸收管路穿越伸缩缝或管路及设备之间所产生的沉降量。

全方位可挠，安全，简单，快速，经济-消防洒水系统  
FLEXIBLE, SECURE, SIMPLE, ECONOMIC SPRINKLER MOUNTING SYSTEM

商办大楼，无尘室，风烟管系统  
COMMERCIAL, CLEAN ROOM, DUCT SYSTEM



◆ 安装简单，重置快速

SIMPLIFIED INSTALLATION, EASY RELOCATION

相较于传统硬管配置之旷日费时，不锈钢消防软管由于本身之可挠性，可在极短时间内完成洒水头的定位配置，大量减少现场施工时间与人工成本。此外，它亦提供于楼层或空间重置规划时，有更大的弹性空间重新规划安装消防洒水头，可同时兼顾美观、经济与安全性。

The mounting of sprinklers in suspended ceiling system with conventional mounting method is very laborious and time consuming. The use of the stainless steel sprinkler hose significantly minimises the efforts and laborious costs required for installation purpose, because the flexibility of the hose enable you to change the sprinkler location during renovation or conversions. Beauty, economy, security can be preserved at the same time.

◆ 拥有高耐压性能与良好的可挠度

HIGH PRESSURE RESISTANCE AND GOOD FLEXIBILITY.

一体焊接结构设计，安装简易无需现场施作焊接、涂装或封胶。出厂前均经2倍设计压力100%耐压检测，瞬间结构耐压更可达4倍设计压力。产品并经50000次疲劳寿命检测，挠性结构可有效吸收因地震或结构晃动所导致天花板与消防管线间之位移，并大大降低因配管误差或地震所导致之管路应力与泄漏情形发生。

One piece style construction, require no welding, painting or epoxy coating on site. All Sprinkler Hoses are tested with 2 times the design pressure before delivery. The hydrostatic pressure resistance is 4 times the design pressure. All models of the sprinkler hoses had been passed fatigue life test with 50000 cycles. Allow for independent motion between ceiling grids and main pipe system during seismic activity. The stresses and leaks caused by the earthquake or the misalignment can be avoided.

◆ 国际认证，安心的保证

INTERNATIONAL LABORATORY APPROVED.

LUXE全系列消防软管固定系统-含商办大楼，无尘室，风烟管洒水头固定系统，均经过多项严格实验测试，并通过国际知名实验室产品确认，其品质与安全性均被有效控制与维持，符合各地消防与保险法规相关要求，是一高品质且让您安心的消防产品。

Including Commercial, Clean Room, and Duct sprinkler mounting system. All models of LUXE flexible sprinkler hoses had been conducted with severe tests and got the products approved by famous laboratories. The quality and security is controlled and kept all the time. Meet the local fire protection laws worldwide and the insurance requirements. You could have a peace mind all the time using Panew Flexible Sprinkler Hoses.

◆ 维修简单，无需停机或停工

EASY REPAIR, KEEP RUNNING AND NO DOWNTIME.

针对商办大楼消防洒水系统，洒水头可视需求并依软管本身之挠曲性能轻易位移与固定，不需大范围施工与切割管线。而无尘室与风烟管消防洒水系统，其洒水头检查与更换可在几分钟内完成，于维修保养期间，不仅可保持工作厂区的干净，更无需停工或停机。无形中大大降低整厂的设备维护成本。

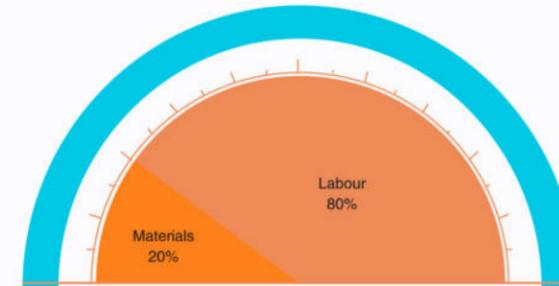
For Commercial system, the sprinkler could be relocated and mounted within the flexible area defined by the Sprinkler Hose length. It just needs a small constructed area, no pipes cutting and threading on site. For Clean Room and Duct system, The sprinkler can be inspected and replaced in a few minutes. The factory or working site can be kept clean and running during maintenance. Require no downtime for routine inspection and replacement. Eliminate the total cost for system repairment.

消防洒水软管与传统硬管对比说明

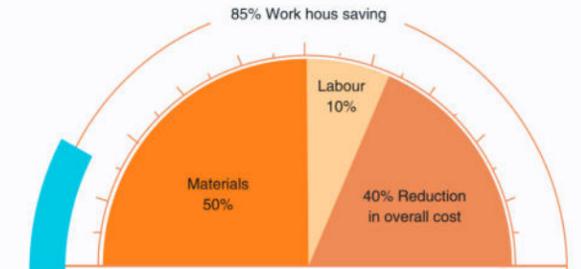
COMPARISON BETWEEN FLEXIBLE SPRINKLER HOSE AND THE RIGID PIPING

□ 传统硬管配置与消防软管配置系统之洒水头安装成本比较说明。

The sprinkler mounting costs comparison between conventional rigid piping and Flexible Sprinkler Hose system.



传统硬管



消防洒水软管

※以传统硬管配置 材料成本：安装成本 = 1：4 为基准（如左上图），右图为相对应之消防软管配置对应成本。

Based on the conventional rigid piping costs. Materials : Labour = 1: 4 (As the figure above/left). The right figure shows the corresponding costs percentage using the Sprinkler Hose system.

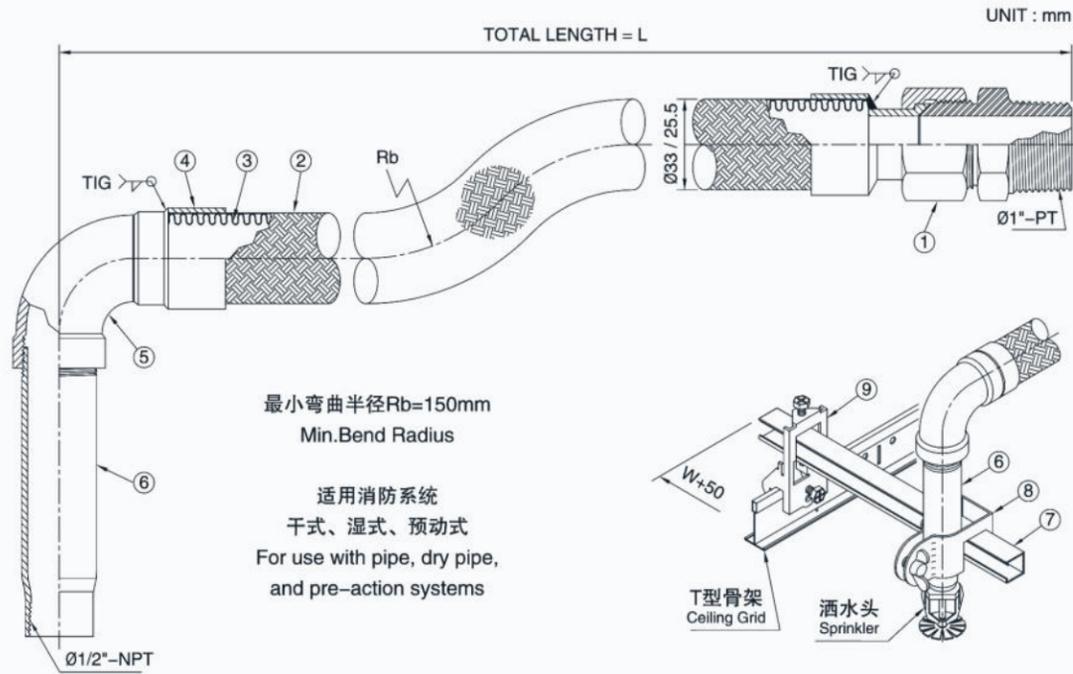
□ 璫克斯消防软管无论在 A.安装 B.成本 C.品质与安全上，拥有比传统硬管配置更优越特性。

The LUXE Sprinkler Hose System is superior in 3 aspects ( A. Installation B. Costs C. Quality & Safety ) compared to the Conventional Rigid Piping System.

璫克斯消防软管 / LUXE Sprinkler Hose	传统硬管配置 / Conventional Rigid Piping
A1 直接进行安装，可快速定位洒水头。 Need no elaborate sprinkler locating process before sprinkler mounting.	a1 安装前必需进行精确洒水头定点量测。 Required elaborate sprinkler locating process before sprinkler mounting.
A2 由於软管之可挠性，安装简易，只须单一作业工程即可完成系统安装。 Quick and easy installation due to the flexible hose and only one process required.	a2 复杂安装作业工程 - 包含切修管材、攻牙并与多段弯头密封接合。 Complicated installing processes - including trimming, threading and sealing with threaded elbows.
A3 可轻易绕过建筑结构或配管障碍，克服狭隘空间安装问题。 Easy to bypass the building components & piping assemblies. Making the work easier in tight area.	a3 如遇建筑结构或配管障碍，必需以多段弯头衔接方式进行安装。 A complicated pipe bends or elbows sealing will be done to bypass the building components & piping assemblies.
A4 配合日后装修工程，洒水头可轻易进行位移与重置，不须重新进行洒水系统配置。 During renovations or conversions, relocate the sprinklers without completely new installation of sprinkler system.	a4 配合日后装修工程，必需更改原有配管以完成洒水头之位移或重置。 During renovations or conversions, require to replace the existing piping with new installation of sprinkler system.
B1 一般工可在7分钟内完成1个洒水头安装，可大幅降低安装成本。 A normal labour can finish one sprinkler system within 7 minutes. The labour costs could be decreased effectively.	b1 安装作业复杂，需要多位高阶有经验专业工才可完成洒水头安装。 Require one more experienced manual labour to finish the elaborate installation of one sprinkler system.
C1 每个消防洒水头安装只需现场牙接 1~3 处，当安装完成进行系统压力检测时，如发现接点泄漏，可於系统进压状态进行二次锁固止漏，不须重新安装与压力重测。 Require only 1~3 sealing connections for each sprinkler system mounting. When the system is conducted with leakage test, the leaks could be sealed again without new system installation under the system pressurized.	c1 每个消防洒水头安装需现场牙接至少 6 处以上，当安装完成进行系统压力检测时，如发现接点泄漏，系统有极大风险必需重新安装并进行多次泄压、泄水与压力重测。 Require 6 or more sealing connections for each sprinkler system mounting. When the system is conducted with leakage test, risk of leaks which often require one more new system installations and pressure leakage tests.
C2 有效降低因地震或不当外力导致之管线变形或破裂情形发生。 Effectively reduce the risk of piping deformation and cracks due to the earthquake or improper forces applied.	c2 地震期间或不当外力作用时，存在极大管线变形与破裂风险。 Risk of piping deformation and cracks due to the earthquake and improper forces applied.

# P-9100A 商业型消防洒水软管

## SPRINKLER HOSE FOR COMMERCIAL SYSTEM



### ● 压损测试数据/Friction Loss Data:

产品总长		流量/Flow Rate:115l/min(C=100)			
Total Length		等效管长, EQL/Φ1" -sch40		弯曲数	
mm	ft	m	ft	N	
900	3.0	8.0	26.3	1	
1200	4.0	9.6	31.6	3	
1500	5.0	10.8	35.3	4	
1800	6.0	11.9	39.1	4	

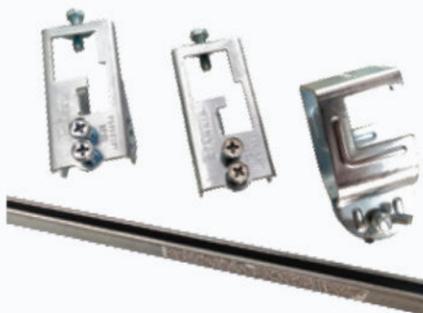
※ N: 90度弯曲数/No. of 90° bend.

### ● 结构组合/Construction:

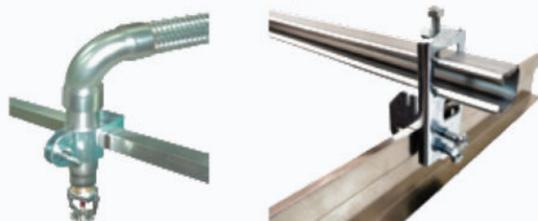
项次/Item	配件名称/Fitting	材质/material
1	由任接头 (Union)	SUS-304/SS-400
2	编织网 (Wire Braids)	SUS-304
3	波纹管 (Bellows)	SUS-304
4	束环 (Collar)	SUS-304
5	90° 弯头 (Elbow)	SUS-304
6	转接头 (Adapter)	SUS-304
7	C型管 (C-Beam)	SPCC(Galv.)
8	转接头扣件 (Adapter Holder)	SPCC(Galv.)
9	方管扣件 (Pipe Clamp)	SPCC(Galv.)

### 产品特性说明/Features of the Sprinkler Hose.

- 耐压性能 / Pressure capabilities:
  - 额定压力 / Rated working pressure : 12.3 kg/cm<sup>2</sup>, 175 psi
  - 耐压压力 / Hydrostatic pressure : 49.3 kg/cm<sup>2</sup>, 700 psi
  - 爆破压力 / Burst pressure : 98.5 kg/cm<sup>2</sup>, 1400 psi
- 优越可挠性能 / Advantages of high flexibility
  - 可依安装环境灵活调整洒水头配置。  
Flexible to adjust the sprinklers to installation conditions.
  - 可于结构晃动时, 防止管线龟裂与天花板变形。  
Prevent the pipe cracks and ceiling deformations during seismic sway.
  - 安装快速, 大幅降低安装成本。  
Simple installation. Reduce the laborious costs effectively.
- 施工安全性能 / Installation with security
  - 螺丝件固定, 结构简单, 施工安全性高。  
Construction with screws. Provide builders with security.
  - 单一结构设计, 100%工场测压, 现场零泄漏。  
One piece style structure. Pre-assembled and tested for pressure leak in the factory 100% before delivery

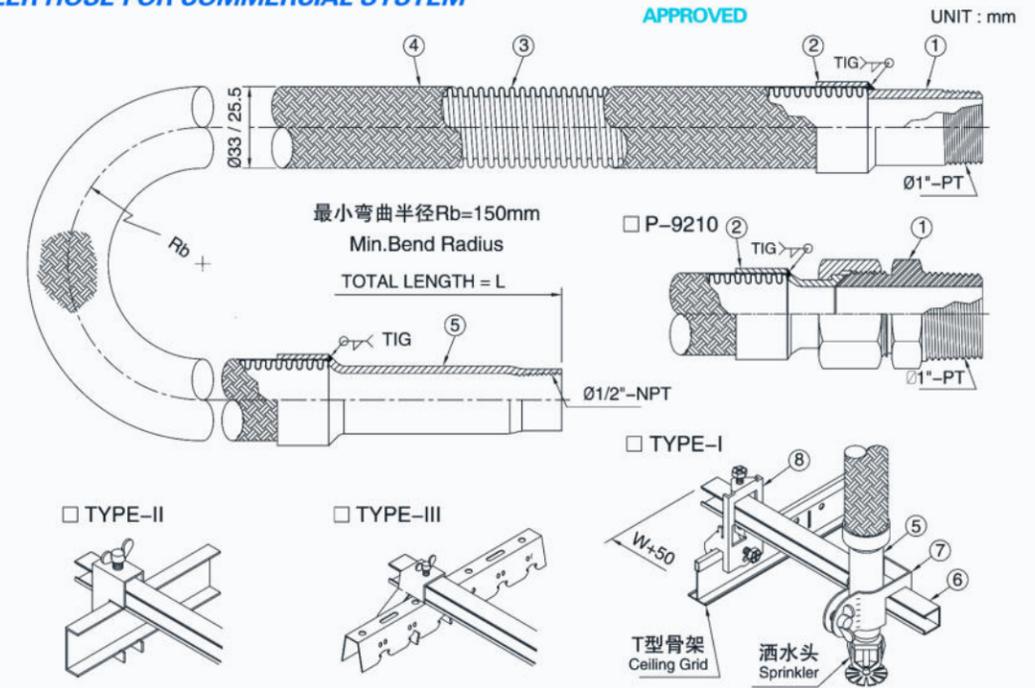


标准配件: C型管/C-Beam 700mm x 1pc  
Std. Fittings 方管扣件/Pipe Clamp x 2sets  
转接头扣件/Adapter Holder x 1set



# P-9200 商业型消防洒水软管

## SPRINKLER HOSE FOR COMMERCIAL SYSTEM



### ● 压损测试数据/Friction Loss Data:

产品总长		流量/Flow Rate:115l/min(C=100)			
Total Length		等效管长, EQL/Φ1" -sch40		弯曲数	
mm	ft	m	ft	N	
900	3.0	8.0	26.3	1	
1200	4.0	9.6	31.6	3	
1500	5.0	10.8	35.3	4	
1800	6.0	11.9	39.1	4	

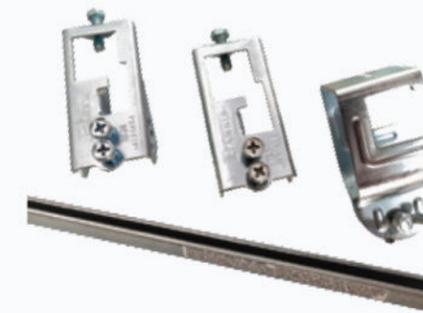
※ N: 90度弯曲数/No. of 90° bend.

### ● 结构组合/Construction:

项次/Item	配件名称/Fitting	材质/material
1	圆立布 (Round Nipple)	SUS-304
	由任接头 (Union)	SS-400
2	束环 (Collar)	SUS-304
3	波纹管 (Bellows)	SUS-304
4	编织网 (Wire Braids)	SUS-304
5	转接头 (Adapter)	SUS-304
6	C型管 (C-Beam)	SPCC(Galv.)
7	转接头扣件 (Adapter Holder)	SPCC(Galv.)
8	方管扣件 (Pipe Clamp)	SPCC(Galv.)

### 产品特性说明/Features of the Sprinkler Hose.

- 耐压性能 / Pressure capabilities:
  - 额定压力 / Rated working pressure : 12.3 kg/cm<sup>2</sup>, 175 psi
  - 耐压压力 / Hydrostatic pressure : 49.3 kg/cm<sup>2</sup>, 700 psi
  - 爆破压力 / Burst pressure : 98.5 kg/cm<sup>2</sup>, 1400 psi
- 优越可挠性能 / Advantages of high flexibility
  - 可依安装环境灵活调整洒水头配置。  
Flexible to adjust the sprinklers to installation conditions.
  - 可于结构晃动时, 防止管线龟裂与天花板变形。  
Prevent the pipe cracks and ceiling deformations during seismic sway.
  - 安装快速, 大幅降低安装成本。  
Simple installation. Reduce the laborious costs effectively.
- 施工安全性能 / Installation with security
  - 螺丝件固定, 结构简单, 施工安全性高。  
Construction with screws. Provide builders with security.
  - 单一结构设计, 100%工场测压, 现场零泄漏。  
One piece style structure. Pre-assembled and tested for pressure leak in the factory 100% before delivery



标准配件: C型管/C-Beam 700mm x 1pc  
Std. Fittings 方管扣件/Pipe Clamp x 2sets  
转接头扣件/Adapter Holder x 1set

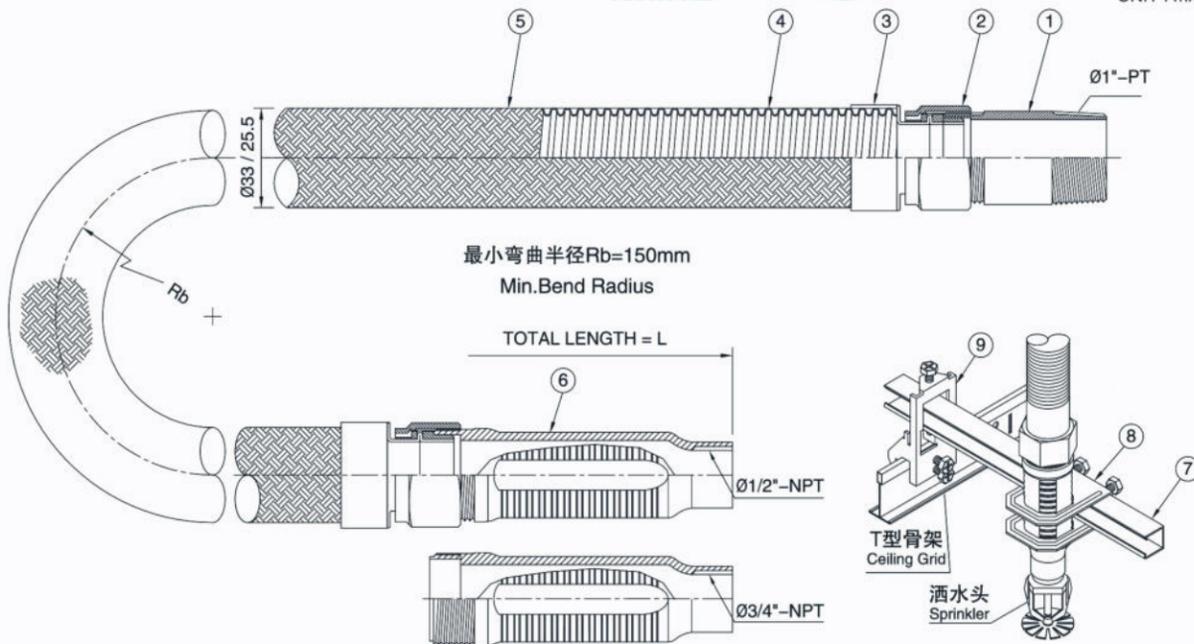


# P-9300 商业型消防洒水软管

## SPRINKLER HOSE FOR COMMERCIAL SYSTEM



UNIT : mm



### ● 压损测试数据/Friction Loss Data:

产品总长		Hazen-Willams coefficient of friction C=120		
Total Length		等效管长/EQL(Φ1" -sch40)		
mm	ft	m	ft	弯曲数
600	2.0	2.6	8.7	1
900	3.0	4.5	15.0	2
1200	4.0	6.5	21.3	3
1500	5.0	8.4	27.6	4
1800	6.0	10.3	34.0	4

※N: 90度弯曲数/No.of 90° bend.

### ● 结构组合/Construction:

项次/Item	配件名称/Fitting	材质/material
1	圆立布 ( Round Nipple )	SS-400(Galv.)
2	螺母 ( Nut )	SS-400(Galv.)
3	束环 ( Collar )	SUS-304
4	波纹管 ( Bellows )	SUS-304
5	编织网 ( Wire Braids )	SUS-304
6	转接头 ( Adapter )	SS-400(Galv.)
7	C型管 ( C-Beam )	SPCC(Galv.)
8	转接头扣件 ( Adapter Holder )	SPCC(Galv.)
9	方管扣件 ( Pipe Clamp )	SPCC(Galv.)

### 产品特性说明/Features of the Sprinkler Hose.

1. 耐压、耐温性能 / Pressure & Temperature capabilities  
 额定压力 / Rated working pressure : 16.0 kg/cm<sup>2</sup>, 225 psi  
 耐压压力 / Hydrostatic pressure : 64.0 kg/cm<sup>2</sup>, 900 psi  
 额定温度 / Rated working temperature : -40 ~ +200 °C
2. 品质安全性能 / Quality & Security of products.
  - a. 可于结构晃动时, 防止管线龟裂与天花板变形。  
Prevent the pipe cracks and ceiling deformations during seismic sway.
  - b. 三段式结构设计, 100%工厂测压, 现场零泄漏。  
Three pieces style structure. Pre-assembled and tested for pressure leak in the factory 100% before delivery.
3. 专利设计固定扣件  
Patent anchoring components No.M281654
  - a. 通用性扣件设计, 适用于各式安装场合。  
All-purpose anchoring component is flexible to mount to different installation conditions.
  - b. 活动式内外牙接头设计, 系统安装更加灵活快速。  
Removable male & female screwed end is more flexible and easy to mount the sprinkler system.



标准配件: C型管/C-Beam 700mm x 1pc  
Std. Fittings 方管扣件/Pipe Clamp x 2sets  
转接头扣件/Adapter Holder x 1set

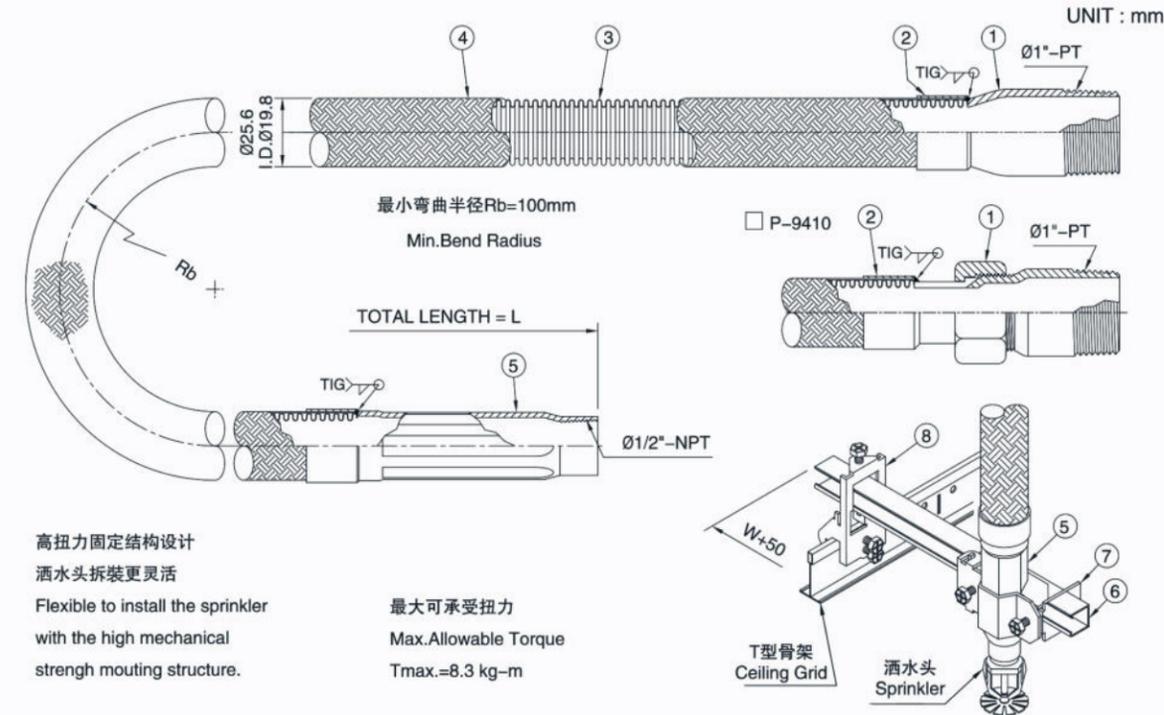


# P-9400 商办大楼专用消防洒水软管

## SPRINKLER HOSE FOR COMMERCIAL SYSTEM



UNIT : mm



高扭力固定结构设计  
洒水头拆装更灵活  
Flexible to install the sprinkler  
with the high mechanical  
strength mouting structure.

最大可承受扭力  
Max.Allowable Torque  
Tmax.=8.3 kg-m

### ● 压损测试数据/Friction Loss Data:

产品总长		Hazen-Willams coefficient of friction C=120		
Total Length		等效管长/EQL(Φ1" -sch40)		
mm	ft	m	ft	弯曲数
700	2.2	7.96	26.1	1
1000	3.3	11.20	36.7	2
1200	4.0	13.61	44.7	3
1500	5.0	18.75	61.5	4
1800	6.0	21.89	71.8	4

※N: 90度弯曲数/No.of 90° bend.

### ● 结构组合/Construction:

项次/Item	配件名称/Fitting	材质/material
1	圆立布 ( Round Nipple )	SUS-304
2	由任接头 ( Union )	SS-400
3	束环 ( Collar )	SUS-304
4	波纹管 ( Bellows )	SUS-304
5	编织网 ( Wire Braids )	SUS-304
6	转接头 ( Adapter )	SUS-304
7	C型管 ( C-Beam )	SPCC(Galv.)
8	转接头扣件 ( Adapter Holder )	SPCC(Galv.)
9	方管扣件 ( Pipe Clamp )	SPCC(Galv.)

### 产品特性说明/Features of the Sprinkler Hose.

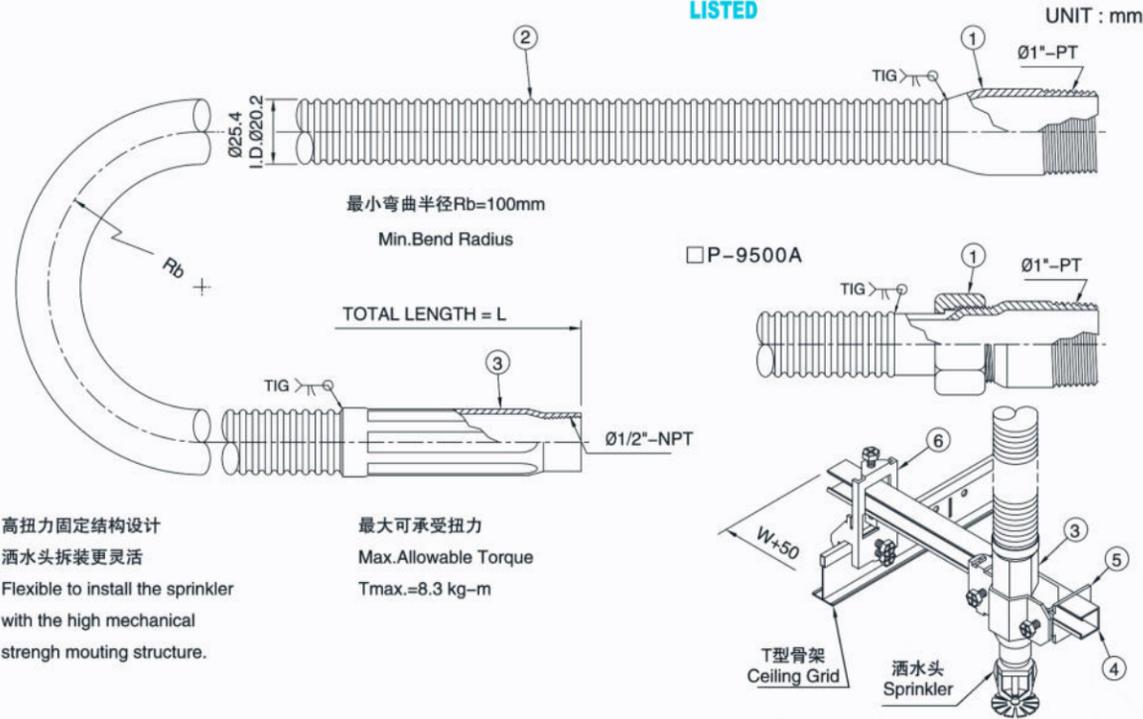
1. 耐压、耐温性能/Pressure & Temperature capabilities:  
 额定压力/Rated working pressure: 16.0 kg/cm<sup>2</sup>  
 耐压压力/Hydrostatic pressure: 64.0 kg/cm<sup>2</sup>  
 额定温度/Rated working temperature: -40~+200°C
2. 专利设计固定扣件/Patent anchoring components  
 专利号/Patent no:M281654,M364521
  - a. 通用性扣件设计, 适用于各式安装场合。  
All-purpose anchoring component is flexible to mount to different installation conditions.
  - b. 开放式转接头扣件设计, 系统安装更灵活快速。  
Opened type adapter holder is more flexible and easy to mount the sprinkler system.
3. 施工安全性能/Installation with security
  - a. 螺丝件固定, 结构简单, 施工安全性高。  
Construction with screws.Provide builders with security.
  - b. 单一结构设计, 100%工厂测压, 现场零泄漏。  
One piece style structure.Pre-assembled and tested for pressure leak in the factory 100% before delivery.



标准配件 C型管/C-Beam 700mm x 1pc  
Std. Fittings 方管扣件/Pipe Clamp x 2sets  
转接头扣件/Adapter Holder x 1set



## P-9500 商办大楼专用消防洒水软管 SPRINKLER HOSE FOR COMMERCIAL SYSTEM



### ● 压损测试数据/Friction Loss Data:

产品总长		Hazen-Williams coefficient of friction C=120		
Total Length		等效管长/EQL(Φ1" -sch40)		弯曲数
mm	ft	m	ft	N
600	2.0	11.6	38	2
900	3.0	17.4	57	3
1200	4.0	22.9	75	3
1500	5.0	23.8	78	3
1800	6.0	31.4	103	3

※N: 90度弯曲数/No. of 90° bend.

### ● 结构组合/Construction:

项次/Item	配件名称/Fitting	材质/material
1	圆立布 (Round Nipple)	SUS-304
	由任接头 (Union)	SS-400
2	波纹管 (Bellows)	SUS-304
3	转接头 (Adapter)	SUS-304
4	C型管 (C-Beam)	SPCC(Galv.)
5	转接头扣件 (Adapter Holder)	SPCC(Galv.)
6	方管扣件 (Pipe Clamp)	SPCC(Galv.)

### 产品特性说明/Features of the Sprinkler Hose.

- 耐压、耐高温性能/Pressure & Temperature capabilities:  
 额定压力/Rated working pressure: 12.3 kg/cm<sup>2</sup>, 175psi  
 耐压压力/Hydrostatic pressure: 24.6 kg/cm<sup>2</sup>, 350psi  
 额定温度/Rated working temperature: -40~+200℃
- 品质安全性能/Quality & Security of products.  
 a. 厚壁波纹管结构, 不需外覆编织网, 定位性佳, 耐腐蚀性强。  
 The bellows is made with thick stainless steel, have good corrosion resistance and good shaped feature.  
 b. 单一结构设计, 100%工厂测压, 现场零泄漏。  
 One piece style structure. Pre-assembled and tested for pressure leak in the factory 100% before delivery.
- 专利设计固定扣件/Patent anchoring components  
 专利号/Patent no: M281654, M364521  
 a. 通用性扣件设计, 适用于各式安装场合。  
 All-purpose anchoring component is flexible to mount to different installation conditions.  
 b. 开放式转接头扣件设计, 系统安装更灵活快速。  
 Opened type adapter holder is more flexible and easy to mount the sprinkler system.

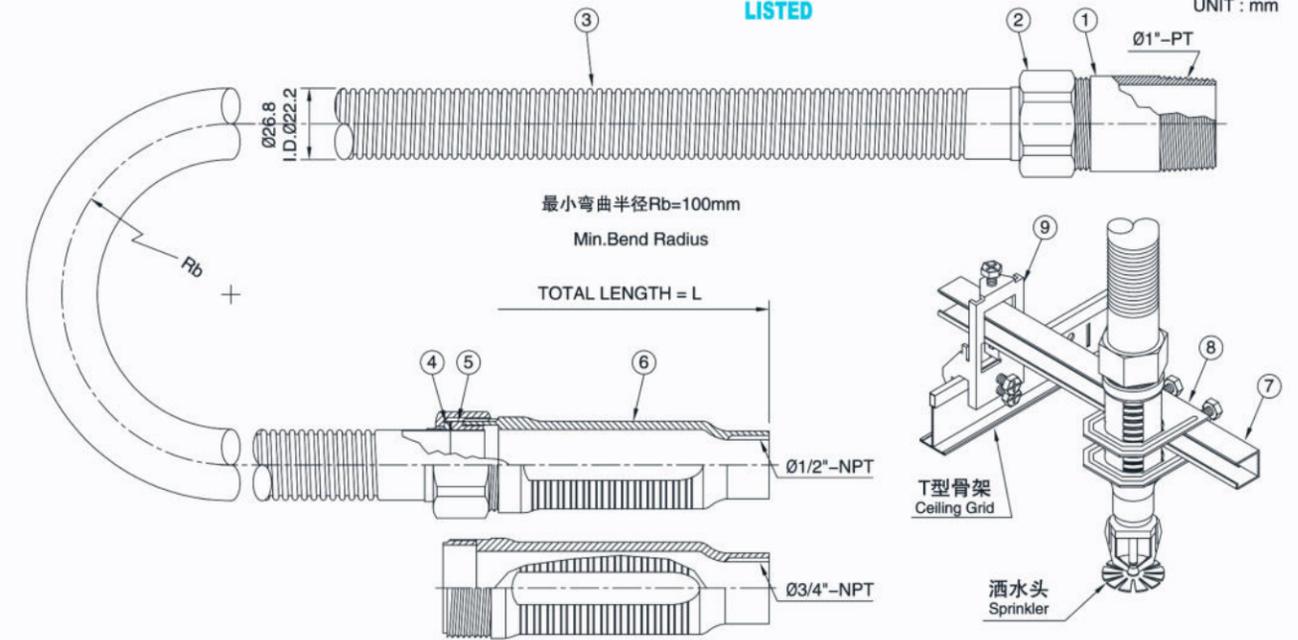


标准备件  
Std. Fittings

C型管/C-Beam 700mm x 1pc  
方管扣件/Pipe Clamp x 2sets  
转接头扣件/Adapter Holder x 1set



## P-9600 商办大楼专用消防洒水软管 SPRINKLER HOSE FOR COMMERCIAL SYSTEM



### ● 压损测试数据/Friction Loss Data:

产品总长		Hazen-Williams coefficient of friction C=120		
Total Length		等效管长/EQL(Φ1" -sch40)		弯曲数
mm	ft	m	ft	N
700	2.2	7.9	26	2
1000	3.3	14.3	47	3
1200	4.0	15.8	52	3
1500	5.0	19.2	63	3
1800	6.0	22.3	73	3

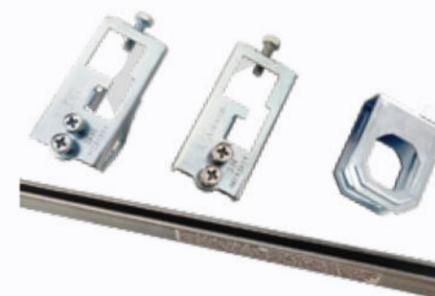
※N: 90度弯曲数/No. of 90° bend.

### ● 结构组合/Construction:

项次/Item	配件名称/Fitting	材质/material
1	圆立布 (Round Nipple)	SS-400(Galv.)
2	螺母 (Nut)	SS-400(Galv.)
3	波纹管 (Bellows)	SUS-304
4	套环 (Stopper)	PA
5	垫圈 (Gasket)	EPDM
6	转接头 (Adapter)	SS-400(Galv.)
7	C型管 (C-Beam)	SPCC(Galv.)
8	转接头扣件 (Adapter Holder)	SPCC(Galv.)
9	方管扣件 (Pipe Clamp)	SPCC(Galv.)

### 产品特性说明/Features of the Sprinkler Hose.

- 耐压、耐高温性能 / Pressure & Temperature capabilities  
 额定压力 / Rated working pressure : 14.0 kg/cm<sup>2</sup>, 200 psi  
 耐压压力 / Hydrostatic pressure : 28.0 kg/cm<sup>2</sup>, 400 psi  
 额定温度 / Rated working temperature : -40 ~ +200 ℃
- 品质安全性能 / Quality & Security of products.  
 a. 厚壁波纹管结构, 不需外覆编织网, 定位极佳, 耐腐蚀性强。  
 The bellows is made with thick stainless steel, have good corrosion resistance and good shaped feature.  
 b. 三段式设计, 100%工厂测压, 现场零泄漏。  
 Three pieces style structure. Pre-assembled and tested for pressure leak in the factory 100% before delivery.
- 专利设计固定扣件  
 Patent anchoring components No. M281654  
 a. 通用性扣件设计, 适用于各式安装场合。  
 All-purpose anchoring component is flexible to mount to different installation conditions.  
 b. 活动式内外牙接头设计, 系统安装更加灵活快速。  
 Removable male & female screwed end is more flexible and easy to mount the sprinkler system.



标准备件:  
Std. Fittings

C型管/C-Beam 700mm x 1pc  
方管扣件/Pipe Clamp x 2sets  
转接头扣件/Adapter Holder x 1set

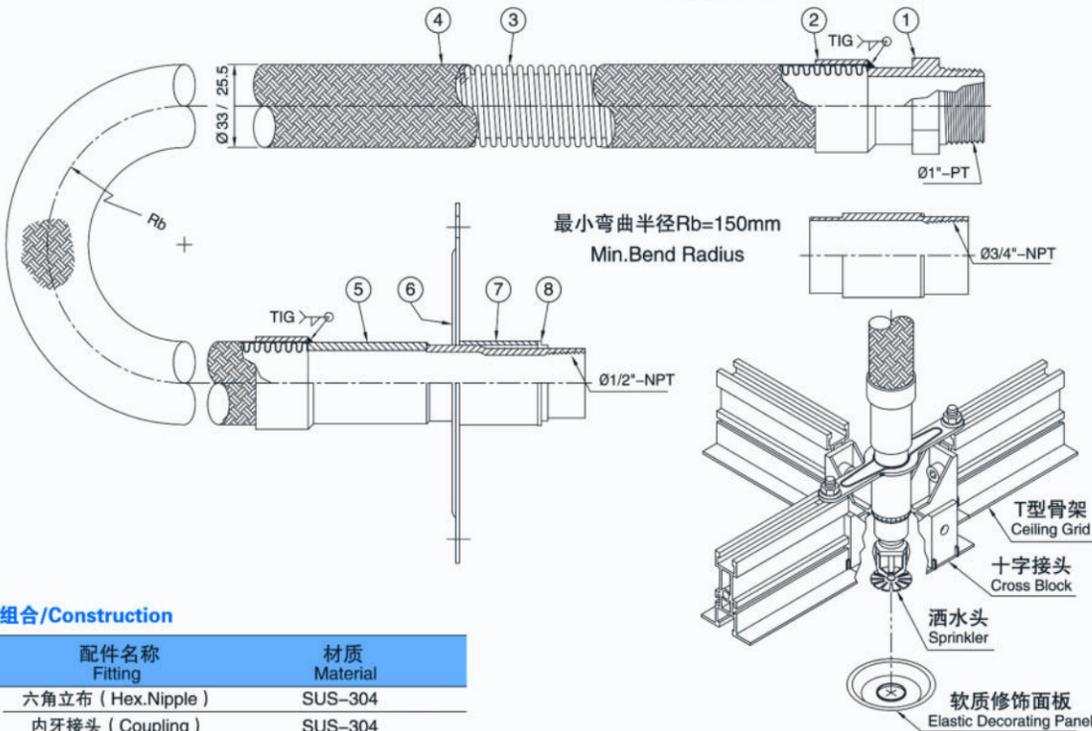


## P-9700 无尘室专用消防洒水软管

### SPRINKLER HOSE FOR CLEAN-ROOM SYSTEM



UNIT : mm



#### ● 结构组合/Construction

项次 Item	配件名称 Fitting	材质 Material
1	六角立布 (Hex.Nipple) 内牙接头 (Coupling)	SUS-304
2	束环 (Collar)	SUS-304
3	波纹管 (Bellows)	SUS-304
4	编织网 (Wire Braids)	SUS-304
5	不锈钢管 (Steel Pipe)	SUS-304
6	固定翅 (Fixing Plate)	SUS-304
7	转接头 (Adapter)	SUS-304
8	T型密封圈 (T-Seal Ring)	Rubber

#### ● 压损测压数据/Friction Loss Date

产品总长		流量/Flow Rate: 115 l/min.(C=100)		
Total Length		等效管长, EQL/φ 1" -sch40 弯曲数		
mm	ft	m	ft	N
600	2.0	1.78	5.93	1
800	2.6	2.24	7.47	1
900	3.0	2.53	8.43	1
1000	3.3	2.85	9.50	3
1200	4.0	3.42	11.40	3
1400	4.6	4.40	14.70	3
1600	5.3	5.43	18.10	4
1800	6.0	5.83	19.53	4
2100	7.0	6.65	22.17	4

※N : 90度弯曲数/No. of 90°bend



P-9700活动固定翅



P-9760V焊接固定翅

#### 产品特性说明/Features of the Sprinkler Hose

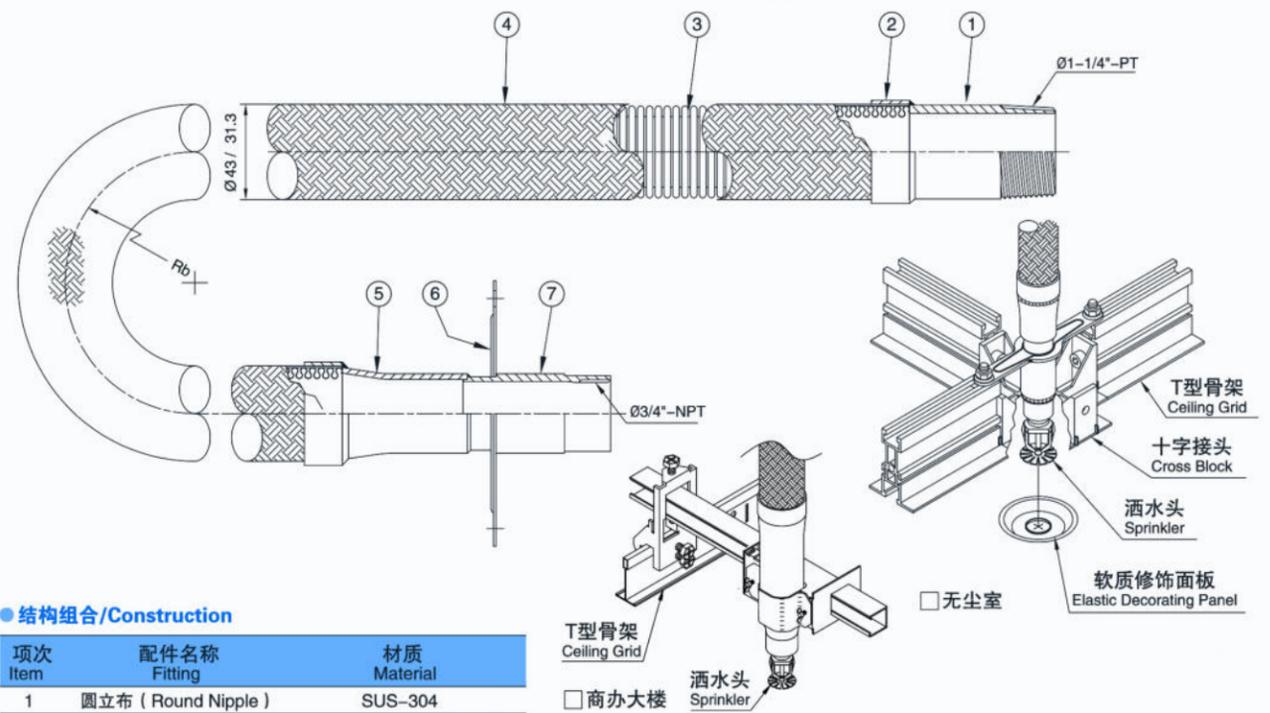
1. 耐压性能/Pressure capabilities:  
 额定压力/Rated working pressure:20.0kg/cm<sup>2</sup>  
 耐压压力/Hydrostatic pressure:80.0kg/cm<sup>2</sup>
2. 品质安全性能/Quality & Security of products  
 a. 单件式管体与不锈钢结构设计, 100%工厂测压, 现场无涂装或密封胶需求。  
 One piece style and stainless steel structure.100% leakage test in the shop .Require no painting or epoxy coating.  
 b. 良好可挠性与活动固定翅, 有效降低因地震或结构位移所造成之骨架变形或管线龟裂。  
 Good flexibility and floating fixing plate structure reduce the risks of ceiling deformations and pipe cracks caused by the earthquake or the structural offset effectively.

## P-9800 大流量消防洒水软管

### SPRINKLER HOSE FOR HIGH FLOW SYSTEM



UNIT : mm



#### ● 结构组合/Construction

项次 Item	配件名称 Fitting	材质 Material
1	圆立布 (Round Nipple)	SUS-304
2	束环 (Collar)	SUS-304
3	波纹管 (Bellows)	SUS-304
4	编织网 (Wire Braids)	SUS-304
5	不锈钢管 (Steel Pipe)	SUS-304
6	固定翅 (Fixing Plate)	SUS-304
7	转接头 (Adapter)	SUS-304

#### ● 压损测压数据/Friction Loss Date

产品总长		流量/Flow Rate: 115 l/min.(C=100)		
Total Length		等效管长, EQL/φ 1" -sch40 弯曲数		
mm	ft	m	ft	N
1000	3.3	1.52	5.1	1
1200	4.0	1.62	5.4	2
1500	5.0	2.05	6.8	3
1800	6.0	2.84	9.5	3

※N : 90度弯曲数/No. of 90°bend



P-9800商业性安装



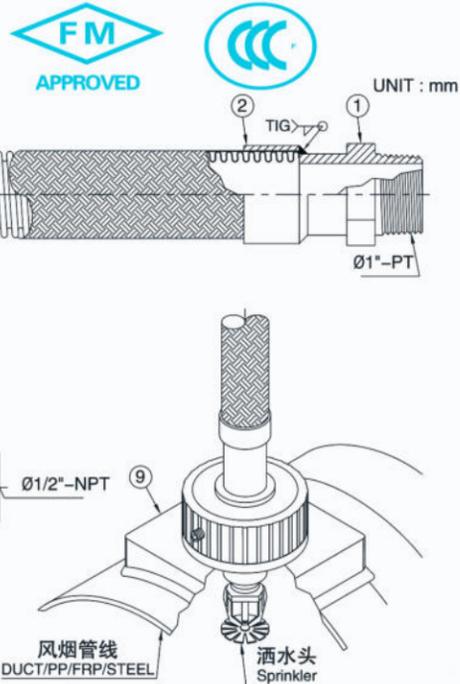
P-9800无尘室安装

#### 产品特性说明/Features of the Sprinkler Hose

1. 耐压性能/Pressure capabilities:  
 额定压力/Rated working pressure:16.0kg/cm<sup>2</sup>  
 耐压压力/Hydrostatic pressure:64.0kg/cm<sup>2</sup>
2. 品质安全性能/Quality & Security of products  
 a. 单件式管体与不锈钢结构设计, 100%工厂测压, 现场无涂装或密封胶需求。  
 One piece style and stainless steel structure.100% leakage test in the shop .Require no painting or epoxy coating.  
 b. 良好可挠性与活动固定翅, 有效降低因地震或结构位移所造成之骨架变形或管线龟裂。  
 Good flexibility and floating fixing plate structure reduce the risks of ceiling deformations and pipe cracks caused by the earthquake or the structural offset effectively.

## P-9900 风管型消防洒水软管

### SPRINKLER HOSE FOR DUCT SYSTEM



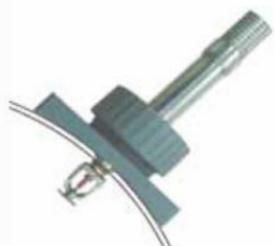
最小弯曲半径Rb=150mm  
Min.Bend Radius

#### ● 结构组合/Construction

项次 Item	配件名称 Fitting	材质 Material
1	六角立布 (Hex.Nipple)	SUS-304
2	束环 (Collar)	SUS-304
3	波纹管 (Bellows)	SUS-304
4	编织网 (Wire Braids)	SUS-304
5	转接头 (Adapter)	SUS-304
6	由任接头 (Union)	PP/FRP(30%)
7	密封板 (Sealing Plate)	SUS-304
8	固定栓 (Locking Screw)	SS-400 (Galv.)
9	由任基座 (Mounting Block)	PP/FRP(30%)

#### 产品特性说明/Features of the Spinkler Hose

- 耐压性能 Pressure capabilities:  
额定压力 Rated working pressure:20.0kg/cm<sup>2</sup>  
耐压压力 Hydrostatic pressure:80.0kg/cm<sup>2</sup>
- 施工安全性能/Installation with security  
a.结构简单, 安装快速, 施工安全性高。  
Simple construction with fast installation.Provide builders with security.  
b.维修保养期间, 不仅可保持工作区洁净, 更不需停工或停机, 有效加速厂区之运作。  
Keep the factory or working site clean and require no downtime for routine inspection and replacement. Accelerate the system room running effectively.



#### ● 压损测压数据/Friction Loss Data

产品总长 Total Length		流量/Flow Rate: 115 l/min.(C=100) 等价管长, EQL/φ1" -sch40 弯曲数		
mm	ft	m	ft	N
900	3.0	8.0	26.3	1
1200	4.0	9.6	31.6	3
1500	5.0	10.8	35.3	4
1800	6.0	11.9	39.1	4

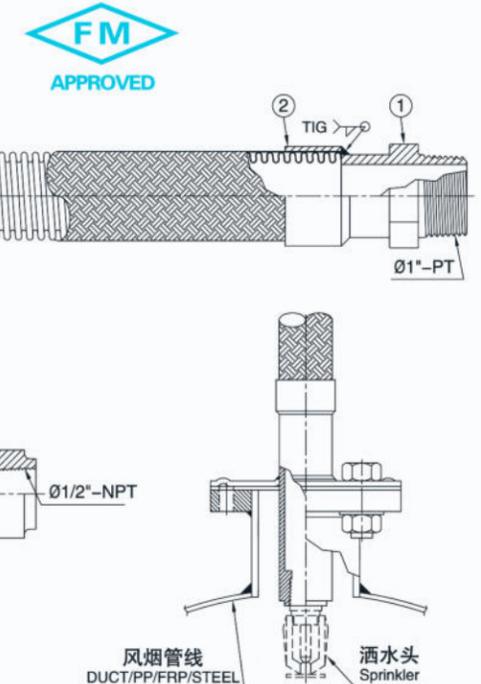
※N: 90度弯曲数/No. of 90°bend

#### 3.品质安全性能/Quality & Security of products

- 单件式管体与不锈钢结构设计, 100%工厂测压, 现场无涂装或密封胶需求。  
One piece style and stainless steel structure.100% leakage test in the shop .Require no painting or epoxy coating.
  - 良好可挠性与活动固定座, 有效降低因地震或结构位移所造成之风管变形或管线龟裂。  
Good flexibility and floating mounting block structure reduce the risks of duct deformations and pipe cracks caused by the earthquake or structural offset effectively.
- 专利固定结构设计, 安装简易, 低应力残存。  
Patent design for simple installation & low stresses applied. 专利字号/Patent no.:M306116,M316082

## P-9904 风管型消防洒水软管

### SPRINKLER HOSE FOR DUCT SYSTEM



最小弯曲半径Rb=150mm  
Min.Bend Radius

#### ● 结构组合/Construction

项次 Item	配件名称 Fitting	材质 Material
1	六角立布 (Hex.Nipple)	SUS-304
2	束环 (Collar)	SUS-304
3	波纹管 (Bellows)	SUS-304
4	编织网 (Wire Braids)	SUS-304
5	转接头 (Adapter)	SUS-304
6	固定盘 (Fix Plate)	SUS-304

#### 产品特性说明/Features of the Spinkler Hose

- 耐压性能 Pressure capabilities:  
额定压力 Rated working pressure:12.3kg/cm<sup>2</sup>,175psi  
耐压压力 Hydrostatic pressure:49.3kg/cm<sup>2</sup>,700psi  
爆破压力 Burst pressure:98.5kg/cm<sup>2</sup>,1400psi
- 施工安全性能/Installation with security  
a.结构简单, 安装快速, 施工安全性高。  
Simple construction with fast installation.Provide builders with security.  
b.维修保养期间, 不仅可保持工作区洁净, 更不需停工或停机, 有效加速厂区之运作。  
Keep the factory or working site clean and require no downtime for routine inspection and replacement. Accelerate the system room running effectively.



#### ● 压损测压数据/Friction Loss Data

产品总长 Total Length		流量/Flow Rate: 115 l/min.(C=100) 等价管长, EQL/φ1" -sch40 弯曲数		
mm	ft	m	ft	N
900	3.0	8.0	26.3	1
1200	4.0	9.6	31.6	3
1500	5.0	10.8	35.3	4
1800	6.0	11.9	39.1	4

※N: 90度弯曲数/No. of 90°bend

#### 3.品质安全性能/Quality & Security of products

- 单件式管体与不锈钢结构设计, 100%工厂测压, 现场无涂装或密封胶需求。  
One piece style and stainless steel structure.100% leakage test in the shop .Require no painting or epoxy coating.
  - 良好可挠性与活动固定座, 有效降低因地震或结构位移所造成之风管变形或管线龟裂。  
Good flexibility and floating mounting block structure reduce the risks of duct deformations and pipe cracks caused by the earthquake or structural offset effectively.
- 专利固定结构设计, 安装简易, 低应力残存。  
Patent design for simple installation & low stresses applied. 专利字号/Patent no.:M306116,M316082

